

**PRODUCTS LIST FOR WATER & SOLVENT BASED PAINTS****Acrylic Emulsions from Visen Industries Ltd.**

DATE: 04.04.2024

1. **Visicryl 7650 [50% solid] – Styrene Acrylic.**
2. **Visicryl 7669 [50% solid] – High Performance Styrene Acrylic**
3. **Visicryl 6155 [55% solid] – Vam Acrylic Co-polymer [Interior only].**
4. **Visimer 4056 [55% solid] – VAM VEOVA Co-polymer [Interior & Exterior]**
5. **Visimer 4955E [55% solids] Aqueous APEO & formaldehyde free emulsion. Paint manufactured with Visimer 4955 E donot turn off white / yellow.**
6. **Visicryl 8054E [50% Solid] – Pure Acrylic.**
7. **Visicryl 8155 [55% solid] Pure Acrylic.**
8. **Visicryl 8438/8438 M [50% solids] Elastomeric Pure Acrylic**
9. **Visicryl 8850/8851 [50% solids] - Pure Acrylic Antidust & Antistain coating.**
10. **Visicryl 8355 HG for High Gloss Emulsions.**
11. **Visicryl 830 [30% solid] Sodium, Polyacrylate low foaming Acrylic Dispersant.**
12. **Visicryl 845 [45% solids] Anionic Dispersing Agent – Aqueous APEO & formaldehyde free high efficient, Low viscosity Poly Acrylate Dispersant.**
13. **Visicryl 130 – Dispersing Agent APEO FREE 30% Solids**
14. **Visicryl 828 [28% solid] Ammonia free thickener.**
15. **Visicryl 825 [25% solids] Formaldehyde free Acidic cross linked acrylic thickener**
16. **Visicryl 844 [22% solid] Ammonia free thickener.**
17. **Visicryl 960 [30% solid] Associative thickener - Anionic Hydrophobically modified alkali soluble emulsion (HASE) polymer used as rheology modifier for water borne coating applications.**
18. **Visicryl OP 66 [37% solid] [Opaque Polymer] partial replacement for Titanium Di Oxide.**

**TROY SIAM COMPANY LIMITED**

**PERFORMANCE ADDITIVES FOR SOLVENT WATER BASED SYSTEM**

1. **TROYSERSE 98 C - WETTING & DISPERSING AGENT ESPECIALLY FOR CARBON BLACK**
2. **TROYSERSE SD 8 - COST EFFECTIVE PIGMENT WETTING AGENT**
3. **TROYSERSE CD1 - WETTING & DISPERSING AGENT WITH BETTER DISPERSION STABILITY.**
4. **TROYTHIX 150 ACS - VISCOSITY / SAG / SETTLING AGENT**
5. **TROYSOL AFL - AIR RELEASE [DEFOAMER] AND LEVELLING AGENT  
[Anti-floating/ Flooding agent from Arxada]**
6. **TROYSOL Z 370 - SUBTRACTS WETTING / FLOW / SLIP & MAR FOR AQUEOUS AND NON AQUEOUS.**
7. **TROYSERSE ZWD1 - 100% ACTIVE WETTING AGENT FOR AQUEOUS AND NON AQUEOUS**
8. **TROYSAL LAC is an Adhesion promoter & surface wetting agent.**
9. **TROYKYD D 704 - DEFOAMER FOR WATER BASED PAINT SYSTEM**
10. **TROYKDY D 209 W - DEFOAMER FOR WATER BASED PAINT SYSTEM**
11. **TROYSOL AFP - ANTIFLOATING AND FLOODING AGENT**

**Note: For Arxada(Formerly Lonza/ Troy) products kindly refer technical brochures attached.**

**PERFORMANCE BIOCIDES FOR WATERBASED SYSTEM**

**INCAN PRESERVATIVES:**

**Mergal K9N**

CMIT/MIT based wet state preservative for aqueous systems.

Free VOC & Free from Formaldehyde.

Prevents deterioration & degradation of paints against bacteria, fungi & yeast.

Dosage : 0.3%

**Mergal K14**

CMIT/MIT + Formaldehyde Donor based wet state preservative for aqueous systems.

Prevents growth of Bacteria, fungi & yeast.

Cost effective & Gives good head space protection.

Dosage : 0.3%

**Mergal K20**

BIT Based wet state preservative for aqueous systems.

Formaldehyde free. Prevents growth of bacteria. Stable in high temperature and wide Ph

Dosage : 0.05% to 0.15%

**Mergal 530A**

Fast Acting, Broad spectrum Biocide for elimination of Bacteria, Fungi & Algae in Aqueous systems. It kills the bacteria and vanishes from the system.

It can be used in Processing water, recovery of Spoiled paints & can be used for surface treatment for machineries & equipments.

Dosage recommendations: 0.1% to 0.25%

**Mergal 128**

Wet-State Preservative for Aqueous system.

Prevents growth of bacteria, yeast & fungi. Gives Head space protection.

Can be used in water-based paints, polymer emulsion, adhesives, pigments, slurries & sealants.

Dosage : 0.2% to 0.3%

**DRYFILM PRESERVATIVES:**

**Troysan S89**

Cost effective Dry film preservative for Exterior coatings.

Protects effectively against wide variety of Algae & Fungal organisms on surface.

Zero VOC & APEO free preservative.

Dosage : 0.8% to 1.5% (Dosage to adjusted as per their need of shelf life)

**Troysan 716CR**

Control Release Dry film preservative for Exterior coatings.

Protects effectively against wide variety of Algae & Fungal organisms on surface.

Reduces leaching on surfaces and thereby gives additional protection against algae.

Dosage : 0.8% to 1.5% (Dosage to adjusted as per their need of shelf life)

### Densil DF [Regular Types]

#### **Mergal WP45**

OIT based Dry film Preservatives.

Excellent Antifungal for Interior & exterior paints. (yeast, mold, fungi & mildew)

Can protect fungal spores in both Water & Solvent based systems.

Dosage : Exterior Paints – 0.1 to 0.2% / Interior Paints – 0.05 to 0.3%

#### **Polyphase AF3**

IPBC based Advanced dry film for Water & solvent based paints.

Excellent fungal control in all coating, textile, leather & metal working fluid application.

Dosage : Exterior Paints – 0.5 to 1% / Interior Paints – 0.1 to 0.4%

#### **ANTIFUNGAL : Polyphase 7026**

Combination of IPBC + BCM dry film preservatives for Interior paints.

VOC Free preservative and controls fungi, mold, stain & mildew etc.

Dosage : 0.1 to 0.3%

**PRODUCTS FOR WATER BASED PAINTS:-**

1. HEC – IMPORTED
2. CMC – IMPORTED
3. DEG – DI ETHYLENE GLYCOL – IMPORTED & INDIAN
4. PROPYLENE GLYCOL – IMPORTED
5. MEG [MONO ETHYLENE GLYCOL]
6. ALPHOX 200 – WETTING AGENT OF INDIA GLYCOLS
7. STPP- SODIUM TRI POLY PHOSPHATE – WATER SOFTNER
8. DEFOAMER – Antifoam 1013 , Silicone Defoamer, Stratafoam 7051, Troykyd 209W and Troykyd D 704
9. DRYFILM PRESERVATIVE -Troysan 716 CR incapsulated, Troysan S89 Regular type POLYPHASE AF3 & Polyphase 7026 [Prevents variety of fungal growth in interior & exterior coatings]
10. INCAN PRESERVATIVE – Troy Mergal K 14 [CMIT / MIT , FORMALDEHYDE DONOR TYPE - Mergal K9N [CMIT / MIT], Mergal K20 [BIT 20], (QUICK KILL REPUTAIN D 20), PROXEL 101, PROXEL GXL[BIT20], PROXEL 106.
11. TROYSAL LAC is an Adhesion promoter & surface wetting agent.
12. LIQUOR AMMONIA 10% & 20 %
13. ALCOHOL ESTER – LUNANOL – C12 - IMPORTED HIGH END COEALISING AGENT TO IMPROVE GLOSS AND FILM FORMATION
14. SODIUM ALUMINA SILICATE
15. PINE OIL 'H'
16. TITANIUM DI OXIDE –TR-92 - [IMPORTED] VENATOR Asia SDN BHD [formerly HUNTSMAN TIOXIDE]
17. PU THICKENER – IMPORTED

18. **COMPLETE RANGE OF FINE PASTES FOR INTERIOR AND EXTERIOR application from Indian Chemical Industries**
19. **SILICON BASED WATER REPELLENT ADDITIVE – AQUAPHOBE WR 2.**
20. **Reislin GTMS – Coupling agent and adhesion Promoter.**
21. **WAX EMULSIONS – RHINOL 1100**
22. **EMULSIFIER-RHINOL ALK**
23. **ENTEMONO 10NE – INSECTICIDE AND MOSQUITO REPELLANT FOR WATER BASED PAINTS**
24. **TRIETHYNOLOMINE [IMPORTED] 85% & 99% PH STABILISER**
25. **STRATAWETT APF 90 [ APEO FREE WETTING AGENT]**
26. **LEMON, MIDDLE, SCARLET CHROMES FINE PASTE FOR WATER BASE**
27. **COMPLETE RANGE OF MACHNE COLOURANTS FROM RADIANT CHEMICALS, MUMBAI FOR WATER BASED FORMULATIONS AGAINST SOUJANYA & CHROMOFLOW**
28. **UNIVERSAL STAINER IN BULK PACKING**

### ACRYLICS FOR CONSTRUCTION & REPAIR

1. **Visicryl 7555 [55% solids for water proofing] Styrene Acrylic.**
2. **Visicryl 86 – Pure Acrylic 47% solids for repair and cementitious admixtures.**
3. **Visicryl 76 – Styrene Acrylic 48% +/- solids**
4. **Visicryl 7041 M – 40% solids – Styrene Acrylic for manufacture of penetrating primer to arrest the efflorescence in the concrete structures.**
5. **Visicryl 8438/8438 M [50% solids] Elastomeric Pure Acrylic for all types of flexible coating.**
6. **Apcotex Apcoguard Plus –Styrene Butadiene Latex-52 +/-1 % SOLIDS**
7. **ApcoBuild ApcoGuard(X) - Carboxylated SBR latex – 47% SOLIDS**
8. **Polypropylene Fibre 3MM for Coating & 6MM for construction and chemical**
9. **Visicryl 7660 – 62% Solids Elastomeric Pure Acrylic for all types of flexible coating.**

**CONSTRUCTION CHEMICALS**

1. MHEC - IMPORTED
2. REDISPERSIBLE POLYMER [RDP] - IMPORTED
3. SODIUM GLUCONATE - IMPORTED
4. STARCH ETHER
5. CELLULOSE FIBRE - IMPORTED
6. CALCIUM STEARATE
7. ADHESION PROMOTER [RESIL SILANE GTMS]
8. POWDER DEFOAMER-STRATAFOAM AN 65 P for all Dry powder applications.

**FOR PRINTING INKS**

VINYL ACETATE - VINYL CHLORIDE CO-POLYMER CP 450 - IMPORTED FROM HANWHA SOLUTIONS CORPORATION, SOUTH KOREA.

KF RESIN HK 100 - KETONIC RESIN

## LIST OF PIGMENT POWDERS

### PIGMENTS:

1. FAST YELLOW G, FAST YELLOW 10G
2. FAST YELLOW 74 / 83
3. TOLUDINE RED [YELLOWER / BLUER]
4. SIGNAL RED
5. RUBINE TONER [YELLOWER / BLUER]
6. BORDEAUX F2R
7. PERMANENT RED F4R
8. PERMA RED 2 B [ 48.1 - 48.4]
9. FAST RED 170
10. MAROON TONER
11. PHTHALOCYANINE ALPHA BLUE
12. PHTHALOCYANINE BETA BLUE
13. PHTHALOCYANINE GREEN 7
14. FAST VIOLET 23
15. PRUSSIAN BLUE
16. ALL CHROMES & ZINC PHOSPHATE
17. CARBON BLACK - INDIAN 3000 SPL
18. CARBON BLACK FW 18 & 140 V - IMPORTED - GERMANY
19. CARBON BLACK COREX N 330 - IMPORTED - KOREA
20. TITANIUM DI OXIDE TR 92 - RUTILE GRADE OF VENATOR ASIA
21. IRON OXIDES - RED, YELLOW & BLACK

**ADDITIVES:**

1. **RHINASET 117 - ANTI SETTLING AGENT**
2. **RHINOL G - VISCOCITY BOOSTER**
3. **RHINALAUX G 101 - WETTING & DISPERSANT**
4. **RHINAMIX - AQUAMIX IN ENAMEL AND PRIMER**
5. **SOYA LECITHIN - WETTING AGENT**
6. **MEK OXIME - ANTI SKINNING AGENT**
7. **ALUMINIUM STERATE HIGH GEL , CALCIUM & ZINC STERATES**
8. **DRIERS - IN SMALL PACKING ONLY**
9. **DHV 300000 / 500000 [Resil] – Hammertone additives**
10. **NYLON FILTER FABRIC in various mesh size**
11. **SILICON OIL OF ALL VISCOSITIES AVAILABLE FROM RESIL CHEMICALS**
12. **MATTING AGENT FOR SOLVENT BASED**

**ESSENTIAL ADDITIVES FOR PAINT & COATINGS FROM NOURYON**

- **Wetting Agents 9.5**
- 
- **Dispersing agents ( Water based & Solvent based )**
- 
- **Alcosperse 602 N – Liquid acrylate homopolymer**
- 
- **Alcosperse – Modified co polymer**
- 
- **Duomeen TDO – Tallowpropylent diamine Dioleate**
- 
- **Berol 611 – NPEO free surfactant**
- 
- **HEC EBM 8000**
- 
- **HEC EBM 13000**

**FINE PASTES OF INDIAN CHEMICAL INDUSTRIES, AHMEDABAD**

<b>S.NO</b>	<b>PIGMENT NAME</b>	<b>PACKING</b>	<b>PRODUCT NAME</b>
1.	YELLOW 74	35, 10, 1 KG	YELLOW FGG [ICI SPL]
2.	YELLOW 74	60 KGS	YELLOW MHJE [GREENER]
3.	YELLOW 74	35 KGS	YELLOW FBR
4.	YELLOW 83	35, 10, 1 KG	YELLOW FSR 200
5.	YELLOW 42	35, 10, 1 KG	YELLOW OXIDE L
6.	YELLOW 1	35, 10 KGS	YELLOW FGR
7.	YELLOW 154	35, 10 KGS	YELLOW HRG 200
8.	YELLOW 3	35 KGS	YELLOW FGL
9.	GREEN 7	35, 10, 1 KG	GREEN FYB
10.	GREEN 7	35, 10, 1 KG	GREEN FHTC
11.	BLUE 15:3 MIX	35, 10, 1 KG	BLUE FBG
12.	BLUE 15:0	35, 10, 1 KG	BLUE FBB
13.	BLUE 15:0	35 KGS	BLUE B2N
14.	BLUE 15:3	35 KGS	BLUE F2G 200
15.	ORANGE 5	35 KGS	ORANGE FYK
16.	ORANGE 5	35 KGS	ORANGE D6R
17.	ORANGE 34	35, 1KG	ORANGE GLR 200
18.	RED 101	35, 10, 1KG	RED OXIDE
19.	RED 112	35, 10, 1 KG	RED FSR
20.	RED 112	35 KGS	RED FMIG

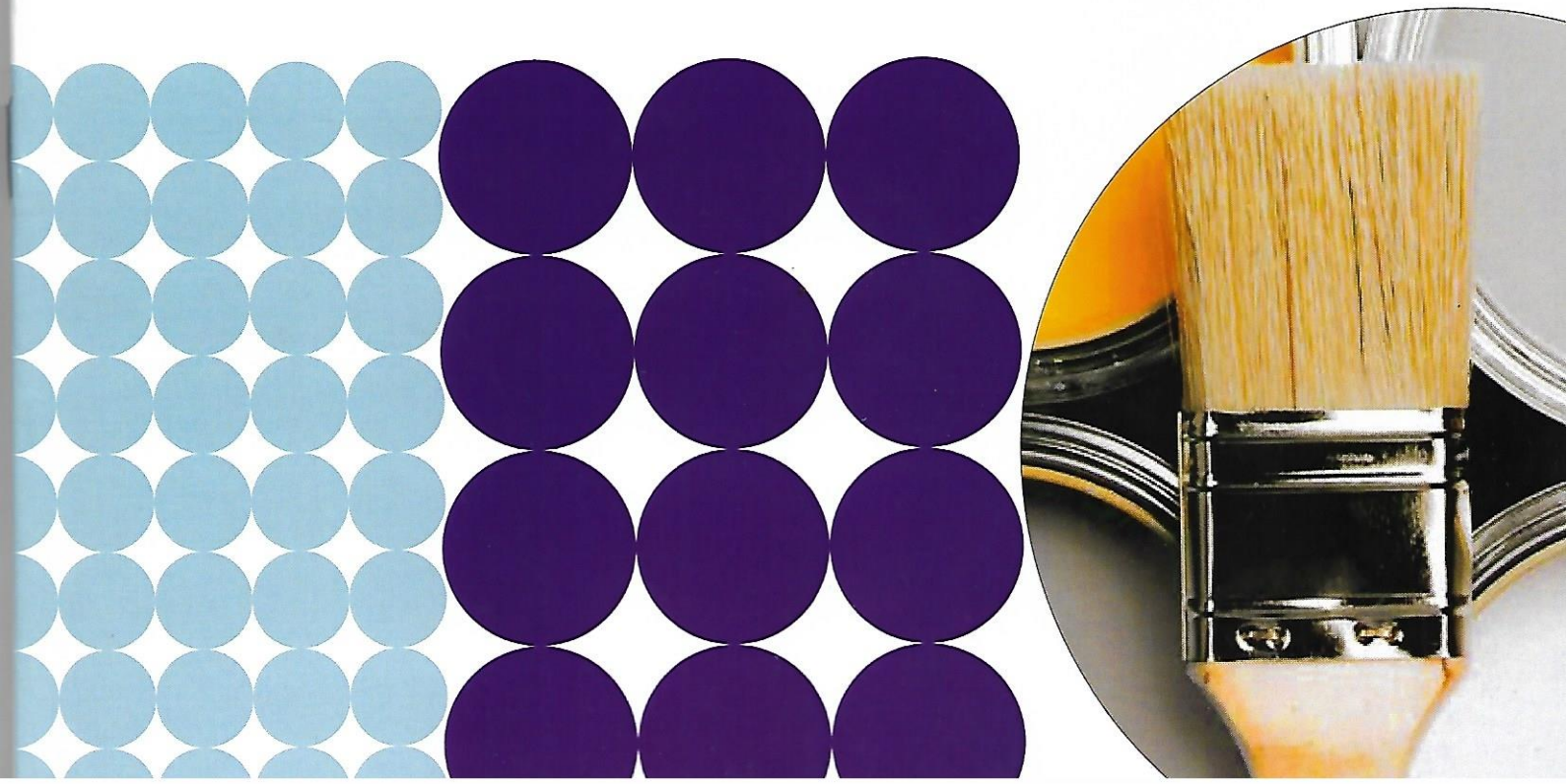
21.	RED 254	35,10, 1KG	RED B2F
22.	RED 3	35 KGS	RED FRR
23.	VIOLET 23	35, 10, 1 KG	VIOLET FRM
24.	RED 122	35, 10, 1 KGS	PINK FYB [MAJENTA]
25.	VIOLET 19	10, 1 KG	RED FKT
26.	RED 8	35, 10 KGS	NEOCRON RED LX FGT
27.	BLACK 7	35, 10, 1 KG	BLACK FRK
28.	RED 170	35, 10, 1 KG	RED J2K
29.	RED 146	35 KGS	CARMINE FYB 200
30.	ORANGE 13	10 KGS	ORANGE FT-GG
31.	YELLOW MIX	35, 10 KGS	GOLDEN YELLOW FRM
32.	BLUE MIX	35, 10 KGS	TURQ BLUE FT-B
33.	GREEN MIX	10 KGS	OLIVE GREEN
34.	RED 12	10 KGS	BORDEAUX

**arxada**

# Advanced Preservatives

## Dry-Film & Wet-State Solutions

Paints & Coatings / India



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## A New Name Built on a Powerful Legacy

Arxada is a global specialty chemicals business with a world-class offering in Consumer Microbial Control (CMC), Industrial Microbial Control (IMC) and Nutrition, Care & Environmental (NCE). We provide a broad portfolio of differentiated products and services targeted at a range of end markets, supported by leading regulatory capabilities, IP expertise and an established track record in R&D. Built upon the powerful legacies of LSI and Troy Corporation, Arxada harnesses decades of expertise to develop and launch new products to support our customers in addressing the challenges they face. We are continually investing in our operations and our technologies to produce more sustainable solutions which are better for the planet and our customers alike.

Arxada manufactures a complete line of high performance dry-film and wet-state (in-package) preservatives for the coatings and related industries. Arxada preservatives are formulated for effectiveness, resiliency against microbial challenges, and compatibility in a wide range of applications.

### Dry-Film Preservatives

Polyphase<sup>®</sup>, Densil<sup>®</sup>, Troysan<sup>®</sup>, Omadine<sup>®</sup>, and Fungitrol<sup>®</sup> dry-film preservatives offer long-lasting, broad-spectrum protection against microorganisms that can potentially damage industrial and architectural coatings. Troy dry-film preservatives offer performance at low use levels for low cost-in-use. Many Arxada preservatives also offer zero- or low-VOC composition, safe handling characteristics, and minimal environmental impact, making the products excellent choices for modern 'green' coatings.

### Wet-State Preservatives

The Mergal<sup>®</sup>, Proxel<sup>®</sup>, and Nuosept<sup>®</sup> portfolio includes the latest in wet-state preservation technology, offering a wide range of performance capabilities to preserve finished products in the wet stage. These advanced preservatives feature the leading active ingredients available, formulated to meet stringent performance, environmental, and safety standards. Arxada wet-state preservatives are proven to provide long-lasting, value-driven performance in a wide range of applications.

This selection guide is designed to inform customers about the preservatives Arxada currently offers, and to assist them in selecting products that will best serve their needs. Contact an Arxada representative for further assistance, or visit [www.arxada.com](http://www.arxada.com) for more information.



**Table 1 - Dry-Film Preservatives**

Product	Physical Form	Function			Actives	Typical Use Levels (% Wwt.)	pH Use Range (Typ.)	Max. App Temp (°C)	Suggested Applications					
		Algaecide	Bactericide	Fungicide					Decorative/ Architectural Paints & Coatings	Wood Coatings	Elastomeric Paints	Stains	Adhesive/Sealants/ Caulks	Construction Material <small>(Joint Compounds, Plasters, etc.)</small>
<b>Solvent-Based Systems</b>														
Polyphase® 963	D	•		•	IPBC+BCM+Diuron	0.20 - 2.00	N/A	60	•	•				•
Polyphase® 7029	L			•	IPBC	0.10 - 1.00	N/A	60	•	•		•	•	
Polyphase® AF3*	L			•	IPBC	0.10 - 0.50	5 - 10	60	•			•		
<b>Aqueous-Based Systems</b>														
Polyphase® PW40	D			•	IPBC	0.05-0.50	3 - 10	60	•		•	•	•	•
Polyphase® 2167	D		•	•	IPBC+iBIT	0.30-1.00	3 - 10	60	•				•	•
Polyphase® 7026	D			•	IPBC+BCM	0.05-0.50	3 - 10	60	•					•
Polyphase® 689	D	•		•	IPBC+BCM+Diuron	0.20-2.00	3 - 10	60	•				•	•
Troysan® 1050	D		•		iBIT	0.30-1.00	3 - 10	60	•					•
Troysan® WP45	E			•	OIT	0.10-0.50	4 - 9	80	•	•		•	•	•
Troysan® 107	D			•	OIT+BCM	0.10-1.00	3 - 10	80	•		•			
Troysan® S89Paste	D	•		•	OIT+BCM+Diuron	0.50-2.00	3 - 10	80	•		•			•
Densil® DF	D	•		•	OIT+BCM+Diuron	0.50-3.00	3 - 10	80	•		•			•
Zinc Omadine® ZOE	D	•	•	•	ZPT	0.10-1.20	4 - 10	100	•				•	•
Zinc Omadine® MP	D	•	•	•	ZPT	0.10-1.20	4 - 10	100	•				•	•
Zinc Omadine® ZOE-T	D	•	•	•	ZPT+BCM	0.10-1.20	4 - 10	100	•				•	•
Densil® CD	D	•	•	•	DTBMA+BCM+Diuron	0.25-2.00	3 - 9	80	•				•	•
Densil® DI50	D	•			Diuron	0.10-1.00	4 - 10	100	•		•			•
Troysan® V662	D	•			Terbutryn	0.10-0.50	3 - 13	180	•		•	•	•	•
<b>Controlled Release Technology</b>														
Troysan® 243CR	D			•	CR: Diuron	0.20-1.60	3 - 10	80	•		•			•
Troysan® MXCR	D	•		•	CR: Diuron+OIT+ZPT	0.20-1.60	3 - 10	80	•		•			•
Troysan® 716CR	D	•		•	CR: Diuron+OIT+BCM	0.20-1.60	3 - 10	80	•		•			•
Troysan® S97CR	D	•		•	CR: Diuron+OIT+BCM	0.20-1.60	3 - 10	80	•		•			•

L=Liquid E=Emulsion D=Dispersion

**Table 2 - Wet-State Preservatives**

Product	Physical Form	Actives	Typical Use Levels (% Wt.)	pH Use Range (Typ.)	Max. App Temp (°C)	Suggested Applications					
						Paints & Coatings	Construction Material (Joint Compounds, Plasters, etc.)	Printing Inks	Pigments & Mineral Slurries	Polymer Dispersion and/or Emulsions	Protein based Industrial Products
<b>Wet-State Preservatives for Protection against Bacteria and Fungi</b>											
Mergal® K10N	L	BIT	0.10-0.40	3 - 13	100	•	•	•	•	•	•
Proxel® K20	L	BIT	0.05-0.25	3 - 12	100	•	•	•	•	•	•
Proxel® BD20	D	BIT	0.05-0.25	3 - 12	100	•	•		•	•	•
Mergal® K32J	D	BIT+CMIT/MIT	0.02-0.25	3 - 9	80	•	•	•	•	•	•
Proxel® BCI	D	BIT+CMIT/MIT	0.02-0.15	3 - 10	80	•	•		•	•	
Nuosept® BM22A	L	MIT+BIT	0.05-0.25	3 - 10	80	•	•	•	•	•	•
Proxel® MB	L	MIT+BIT	0.10-0.50	3 - 10	80	•	•	•	•	•	•
Proxel® BZ Plus	D	BIT+ZPT	0.10-0.50	3 - 10	80	•	•		•	•	•
Proxel® LS	L	BIT+NaPT	0.10-0.50	3 - 10	80	•	•	•	•	•	•
Proxel® 101	L	CMIT/MIT	0.20-0.50	3 - 9	60	•	•	•	•	•	
Mergal® K9N	L	CMIT/MIT	0.05-0.30	3 - 9	60	•	•	•	•	•	
Proxel® CMC	L	CMIT/MIT	0.10-0.30	3 - 9	60	•	•	•	•	•	
Mergal® K14	L	CMIT/MIT+EGF	0.10-0.30	3 - 9	60	•	•	•	•	•	
Proxel® 104	L	CMIT/MIT+EGF	2.50-5.00	N/A	N/A	•	•	•	•	•	
Proxel® 106	L	CMIT/MIT+HCHO	2.00-4.00	3 - 10	60	•	•	•	•	•	
Mergal® 128	L	CMIT/MIT+HCHO	0.10-0.50	3 - 10	60	•	•	•	•	•	
Mergal® K6N	L	Chloracetamide+CMIT/MIT	0.02-0.30	3 - 10	60	•		•	•	•	
Mergal® V698K6	L	OIT+EGF	0.05-0.50	3 - 11	100		•				
Isocil® MI10	L	MIT	0.05-0.30	3 - 12	80	•	•	•	•	•	
Vantocil® IB	L	PHMB	0.05-0.30	3 - 12	100	•	•	•	•	•	
Mergal® 174II	L	HHT	0.05-0.25	5 - 13	100	•	•				
Mergal® V615	L	EGF	0.05-0.25	5 - 13	80	•	•				
<b>Sanitizer and Cleaning Actives/Agents for Equipment and Surfaces</b>											
Mergal® K2N	L	Quats + EGF	0.05-0.50	3 - 10	80	Biocidal wash for surface remediation					
Reputain® D20	L	DBNPA	0.05-0.50	3 - 10	80	Sanitizer for plant hygiene processes					

L=Liquid D=Dispersion

# Partnership & Services

Arxada offers a full suite of value-added services to support its customers worldwide, and to augment its broad product range. Through custom solutions and market-focused expertise, our technical and related services enable customers to produce high-quality products and to lead in the competitive marketplace.

## Technical Service

Technical Service representatives provide formulation assistance, product evaluation, and microbiological, analytical, and field testing to assist customers in developing optimized formulations that meet performance and market objectives. R&D scientists develop innovative technology in anticipation of future market trends. We have numerous Technical Service Centers located strategically worldwide to assist customers.

## Field Testing

Arxada maintains field testing sites worldwide to evaluate the performance of dry-film preservatives under a wide range of environmental conditions. Our field testing sites are subject to a variety of severe microbial threats, such as common mold, mildew, fungi, wood destroying fungi, yeast, and algae. Our preservatives are evaluated over long periods of time to ensure that customers' finished products perform as expected.

## TMMA

Created to enable customers to achieve contamination-free products and processes, and to reduce preservation cost, The Microbial Management Advantage (TMMA) is a unique value-added service offered to customers worldwide. TMMA consists of plant hygiene audits, microbiological identification, efficacy testing, and preservative optimization analysis, which enable customers to achieve excellent performance while also meeting regulatory, sustainability, and cost-in-use goals.

## Regulatory Support

Arxada's experienced regulatory department assists customers to achieve their objectives, while meeting all relevant regulatory requirements. With team members in the Americas, Europe, and Asia, we offer regulatory support globally with regional and national expertise to meet customer needs and enable them to successfully produce and market high-quality, compliant products.

## Co-Branding

Arxada offers its unique Micropel® Antimicrobial Protection co-branding program to enable its customers to communicate added value to end-use customers and differentiate their products with the Micropel® logo on packaging. The program is available to Paints & Coatings and Material Protection customers.

## Sustainability

Arxada is committed to sustainability, and endeavors to remain at the forefront of technology and innovation. We have created and instituted a product development process that goes beyond basic regulatory compliance and focuses on performance, environmental, and safety goals for the benefit of customers, various stakeholders, and end-users alike.



*Our solutions, expertise,  
and support enable our  
customers and their  
products to be more  
efficient, effective,  
and sustainable.*





# arxada

## World-Class Products, Services, & Support

Arxada is a global manufacturer focused on innovation and development of advanced antimicrobials and additives that enhance products and processes. Arxada augments its portfolio of products with world-class technical services that enable customers worldwide to achieve excellent results cost-effectively.

### Arxada's special areas of expertise include:

- Prevention of microbial degradation
- Global regulatory support with regional and national expertise
- Worldwide technical services including microbiology & analytical laboratories

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# arxada

## Global

Arxada AG  
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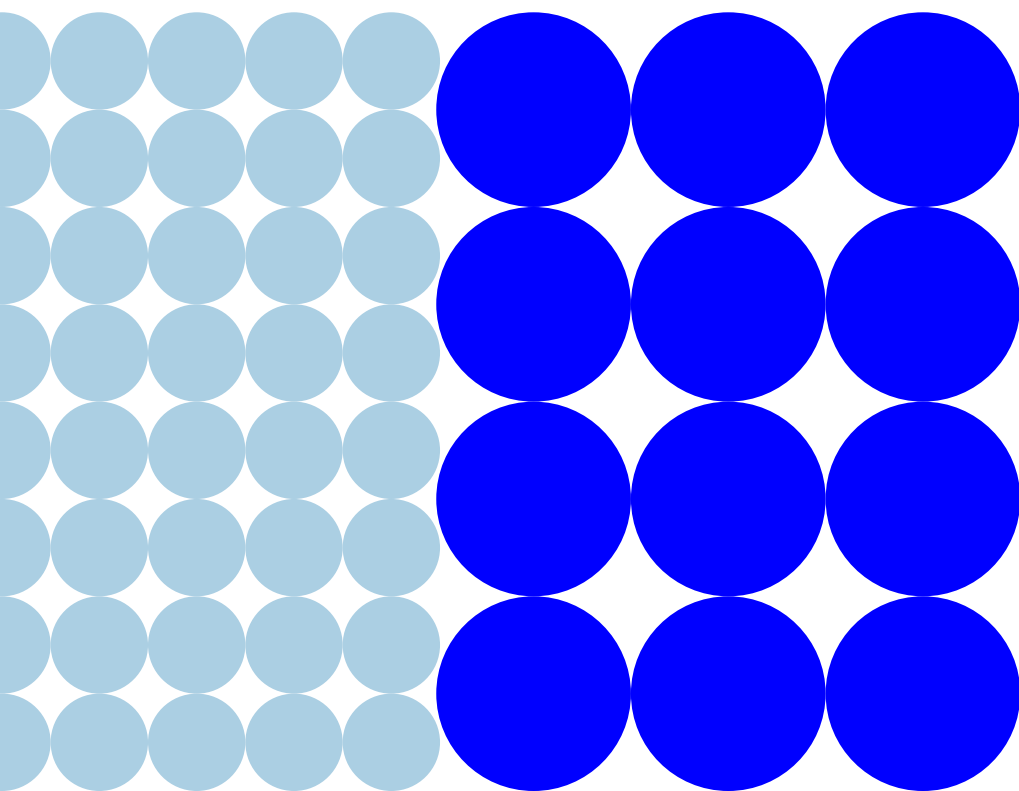
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**arxada**

# Performance Additives for Paints & Coatings

## A Portfolio of Advanced Solutions

Paints & Coatings/Additives/Global



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## A New Name Built on a Powerful Legacy

### We are Arxada

Arxada is a force in microbial control and performance additives, built upon the powerful legacies of industry leaders, such as Troy Corporation. Industrial Microbial Control, or IMC, is the arm of Arxada dedicated to preservatives and additives for customers in paints & coatings, marine antifouling, metalworking fluids, plastics, textiles, and energy. Through Arxada IMC, customers can experience new levels of control, performance, reliability, and sustainability, enabled by an extensive portfolio of products, and one of the largest global manufacturing and supply networks in the industry.

### Arxada Performance Additives.

Arxada Performance Additives enable coatings manufacturers to develop formulated products that meet the demanding requirements of their customers. Arxada Performance Additives include wetting and dispersing additives, rheology modifiers, and defoamers for both solvent and water-borne systems and applications. Arxada also offers a full selection of driers and anti-skinning agents as well as a full line of advanced additives for powder coating systems.

Technical service assistance is located in strategic worldwide locations to provide solutions to customer challenges and assist in the use of additives for new product development.

## Arxada Performance Additives Enhance Coating Properties

Wetting Additives	Dispersing Additives	Rheology Additives	Defoaming Additives	Powder Coating Additives	Driers & Anti-Skinning
Improve substrate wetting	Reduce dispersion processing time	Develop viscosity profile	Eliminate process foam	Enhance flow & leveling	Inhibit loss-of-dry
Improve surface smoothness	Improve color uniformity and strength	Improve color uniformity	Eliminate application foam	Eliminate surface defects	Prevent skinning
Improve color acceptance and uniformity	Increase transparency for transparent pigments	Improve application properties		Promote degassing	Improve dry time
Improve gloss	Improve gloss	Reduce pigment settling		Create textures & special effects	
Improve surface slip	Improve hiding				
Eliminate surface defects		Reduce coating sag			
Improve adhesion					

*This selection guide is designed to inform customers of the performance additives Arxada offers, and to assist them in selecting products that will best serve their needs.*





### Table 1 - Wetting Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troysol™ LAC	Substrate wetting, flow & leveling	Superior substrate wetting	0.1 - 0.8	Liquid	Anionic surfactant	Let down, post-add
Troysol™ ZLAC	Substrate wetting, flow & leveling	No VOC, superior substrate wetting	0.1 - 0.8	Liquid	Anionic surfactant	Let down, post-add
Troysol™ Z370	Substrate wetting, flow, slip & anti-mar	Universal, no VOC contribution	0.1 - 0.5	Liquid	Silicone co-polymer	Let down, post-add
Troysol™ 380W	Substrate wetting, flow & leveling	Reduces surface tension	0.2 - 0.6	Liquid	Siloxane polyalkylene co-polymer	Let down, post-add
Troysol™ 382	Substrate wetting, flow & leveling	Effective wetting in high speed	0.1 - 0.5	Liquid	Diol solution	Let down, post-add
Troysol™ MS2	Surface slip & anti-mar	Excellent anti-mar & slip efficacy and recoatability	0.1 - 0.4	Liquid	Non-ionic surfactant oligomers	Let down, post-add

### Table 2 - Dispersing Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troysperse® W	Pigment dispersion	Effective for color concentrates	Varies	Liquid	Amphoteric dispersant	Grind
Troysperse® ZWD1	Pigment dispersion	Low use level, organic & carbon black	Varies	Liquid	Non-ionic dispersant	Grind
Troysperse® ZWD3	Pigment dispersion	Highly efficient, carbon black	Varies	Liquid	Non-ionic dispersant	Grind
Troysperse® ZWD8	Pigment dispersion	Effective with inorganic pigments	Varies	Liquid	Non-ionic dispersant	Grind
Troysperse® 90W	Pigment dispersion	Excellent for universal color concentrates	Varies	Liquid	Anionic dispersant	Grind

Please confirm product availability in your region/country with your Arxada sales representative.

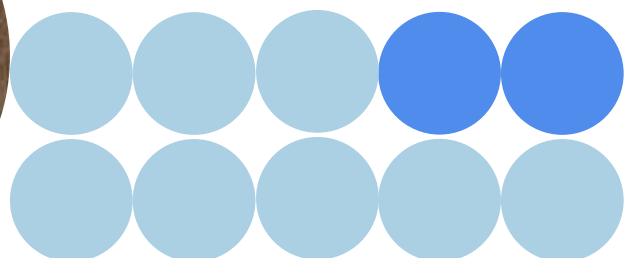
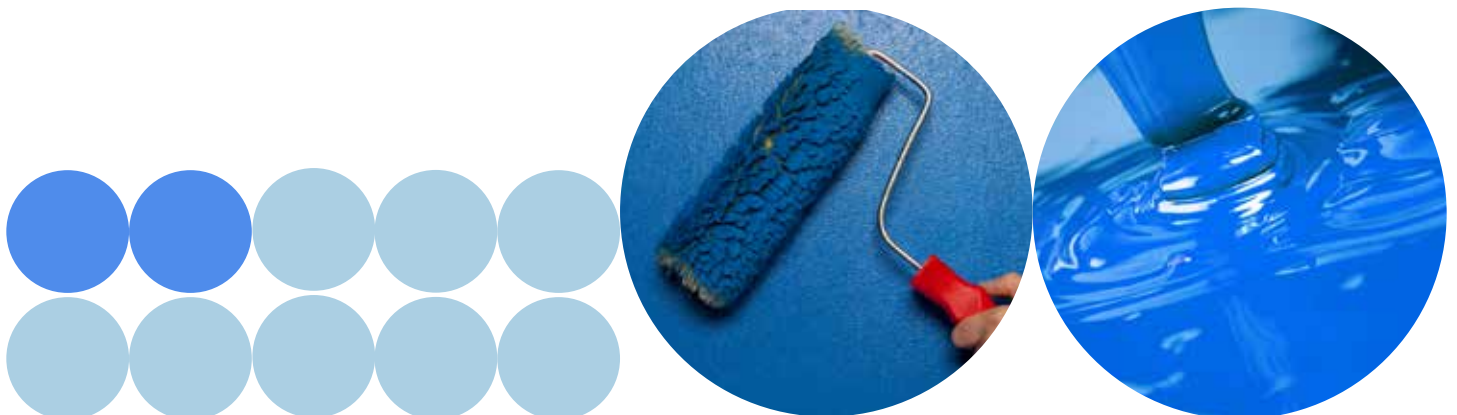




Table 3 - Defoaming Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troykyd® D11	PSA's/adhesives	Silicone-free, easily dispersible	0.2 - 0.5	Liquid	Hydrophobic silica	Grind, let down
Troykyd® D121	Drymix mortar products	Dry powder	0.1 - 0.4	Powder	Glycol-treated carbonate	Dry blend
Troykyd® D209W	Micro/macro foam	Highly compatible	0.2 - 1.0	Liquid	Silicone emulsion	Grind, let down
Troykyd® D230	Process	Effective in color concentrates, FDA compliant	0.05 - 0.30	Liquid	Hydrophobic silica/silicone	Grind
Troykyd® D704	General purpose	High efficacy, excellent performance	0.2 - 1.0	Liquid	Hydrophobic silica	Grind, let down
Troykyd® D727	Performance/ high gloss	Highly effective, excellent persistence	0.1 - 0.6	Liquid	Hydrophobic silica/silicone	Grind, let down
Troykyd® D742	Performance/ high-gloss	Highly effective, excellent persistence	0.1 - 0.6	Liquid	Blend of modified silicones & polyglycols	Grind, let down
Troykyd® D745	Performance/ high-gloss	Highly effective, excellent persistence	0.1 - 0.6	Liquid	Blend of modified silicones	Grind, let down
Troykyd® D762	General purpose	Excellent foam control for medium to high PVC systems	0.1 - 0.5	Liquid	Emulsion of mineral oil, surfactants	Grind, let down
Troykyd® D766	General purpose	High efficacy, excellent in low viscosity systems	0.1 - 0.5	Liquid	Polyglycol-based emulsion	Grind, let down
Troykyd® D767	General purpose	High efficacy in low viscosity systems	0.1 - 0.5	Liquid	Polyglycol-based emulsion	Grind, let down
Troykyd® D768	PSA's/adhesives	APE-free, silicone-free, easily dispersible	0.2 - 0.5	Liquid	Hydrophobic silica	Grind, let down

Please confirm product availability in your region/country with your Arxada sales representative.



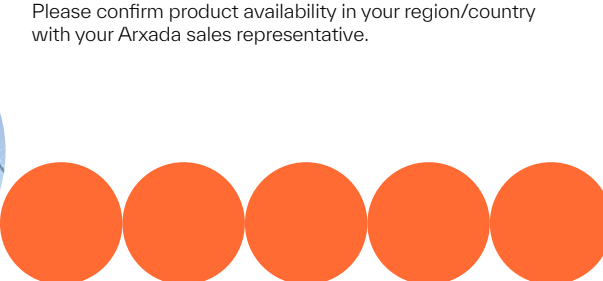
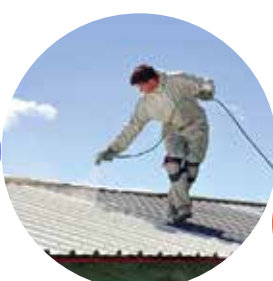
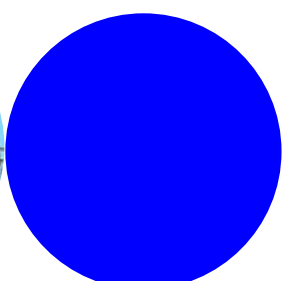


### Table 4 - Wetting Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troysol™ AFP	Color float	Prevents flooding & floating	0.2 - 0.6	Powder	Surface-treated inert carrier	Grind
Troysol™ AFS	Color float	Prevents flooding & floating	0.2 - 0.6	Liquid	Surface active agent	Grind
Troysol™ S366	Substrate wetting, flow & leveling	Wets contaminated substrate	0.2 - 0.6	Liquid	Siloxane co-polymer	Let down, post-add
Troysol™ S367	Substrate wetting, flow & leveling	Wets contaminated substrates, APE-free	0.2 - 0.6	Liquid	Siloxane co-polymer	Let down, post-add
Troysol™ Z370	Substrate wetting, flow, slip & antimar	Universal, no VOC contribution	0.1 - 0.5	Liquid	Silicone co-polymer	Let down, post-add
Troysol™ Z377	Substrate wetting, flow & leveling	Low VOC, superior surface flow & leveling	0.1 - 0.5	Liquid	Acrylic	Let down, post-add
Troysol™ MS2	Surface slip, antimar	Anti-mar, slip efficacy with excellent recoatability	0.1 - 0.4	Liquid	Non-ionic surfactant oligomers	Let down, post-add

### Table 5 - Dispersing Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troysperse™ CD1	Pigment dispersion	Excellent pigment dispersion & stabilization, for inorganic pigments	Varies	Liquid	Derivative of polymerized oils	Grind
Troysperse™ SD8	Pigment dispersion	Cost-effective pigment dispersion, for inorganic pigments	Varies	Liquid	Derivative of polymerized oils	Grind
Troysperse™ W	Pigment dispersion	Effective for color concentrates	Varies	Liquid	Amphoretic dispersant	Grind
Troysperse™ 90W	Pigment dispersion	Excellent for universal color concentrates	Varies	Liquid	Anionic dispersant	Grind
Troysperse™ 98C	Pigment dispersion	Effective with carbon black & organic pigments	Varies	Liquid	Fatty amine surfactant	Grind



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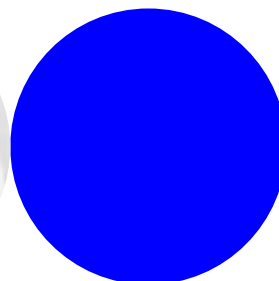
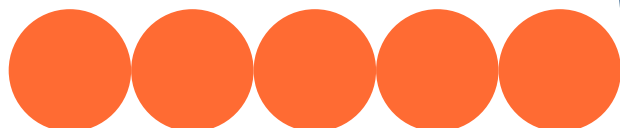
### Table 6 - Rheology Modifiers

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troythix® XYZ	Viscosity/sag/settling	Imparts thixotropic properties	0.2 - 1.0	Powder	Castor oil ester	Grind
Troythix® A	Viscosity/sag/settling	Excellent for architectural coatings	0.2 - 1.0	Powder	Modified castor oil	Grind
Troythix® AntiSag 4	Sag resistance, anti-settling	Post-add to reduce sag	0.4 - 1.0	Liquid	Sulphonated castor oil	Let down, post-add
Troythix® 21BA	Viscosity	Imparts thixotropic properties	0.5 - 1.5	Liquid	Chemically modified polymerized oil	Let down, post-add
Troythix® 42BA	Viscosity	Viscosity adjustments for oxidizing systems	0.5 - 1.5	Liquid	Chemically modified polymerized oil	Let down, post-add
Troythix® 150ACS	Viscosity, sag resistance, anti-settling	Excellent pigment suspension	0.5 - 5.0	Paste	Polyamide wax	Incorporate with shear
Troythix® 152H	Viscosity, sag resistance, anti-settling	High viscosity, excellent pigment suspension	0.5 - 5.0	Paste	Polyamide wax	Incorporate with shear
Troythix® 154B	Viscosity, sag resistance, anti-settling	Excellent pigment suspension	0.5 - 5.0	Paste	Polyamide wax, aromatic-free	Incorporate with shear
Troythix® 200X	Sag/settling	Pourable waxy gel, low temperature activation	1 - 5	Paste	Polyolefin wax	Grind
Troythix® 220B	Sag/settling	Pourable waxy gel, low temperature activation	1 - 5	Paste	Polyolefin wax, aromatic-free	Grind

### Table 7 - Defoaming Additives

Product	Uses	Features	Use Levels (% Weight)	Physical Form	Description	Incorporation
Troysol™ AFL	Air release	Highly effective in solvent systems	0.2 - 0.6	Liquid	Polymeric ester blend	Grind, let down
Troysol™ 307	Air release	Contains silicone, recommended for 2K Epoxy/PU	0.2 - 0.6	Liquid	Non-ionic polymeric surfactant/silicone co-polymer	Grind, let down

Please confirm product availability in your region/country with your Arxada sales representative.



**Table 8 - Suggested Application Systems for Arxada Additives**

Product	Dry	Non-Aqueous												Aqueous											
		Alkyd		Acrylic		Epoxy		Urethane		Polyester		Lacquers			Water Reducible			Emulsion							
		Air-Drying	Baking	Air-Drying	Baking	2-Component	Epoxy Ester	Epoxy-Phenolic	2-Component	Oil-Modified	Moisture-Curing	Saturated	Unsaturated	Nitrocellulose	Butyrate	Vinyl	Chlorinated Rubber	Alkyd	Acrylic	Polyester	Pure Acrylic	Modified Acrylic	Vinyl Acetate/Ethylene	Urethane (PUD)	Alkyd
<b>Wetting Additives</b>																									
Troysol™ AFP		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ AFS		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ LAC																			•	•	•	•	•	•	•
Troysol™ ZLAC																			•	•	•	•	•	•	•
Troysol™ S366		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ S367		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ Z370		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Troysol™ Z377		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ 380W																			•	•	•	•	•	•	•
Troysol™ 382																			•	•	•	•	•	•	•
Troysol™ MS2		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Troysol™ PWA	•																		•	•	•	•	•	•	•
<b>Defoaming Additives</b>																									
Troykyd® D11																				•	•	•			
Troykyd® D121	•																								
Troykyd® D209W																			•	•	•	•	•	•	•
Troykyd® D230																			•	•	•	•	•	•	•
Troykyd® D704																			•		•	•	•		•
Troykyd® D727																			•	•	•	•	•	•	•
Troykyd® D742																			•	•	•	•	•	•	•
Troykyd® D745																			•	•	•	•	•	•	•
Troykyd® D762																			•		•	•	•		•
Troykyd® D766																			•	•	•	•	•	•	•
Troykyd® D767																			•	•	•	•	•	•	•
Troysol™ AFL		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troysol™ 307		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
<b>Dispersing Additives</b>																									
Troyperser™ CD1		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
Troyperser™ SD8		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troyperser™ W		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Troyperser™ ZWD1																			•	•	•			•	•
Troyperser™ ZWD3																			•	•	•			•	•
Troyperser™ ZWD8		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Troyperser™ 90W		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Troyperser™ 98C		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
<b>Rheology Modifiers</b>																									
Troythix® A		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
Troythix® AntiSag 4		•	•			•			•			•													
Troythix® XYZ		•				•	•	•	•	•	•	•	•	•	•	•	•	•							
Troythix® 21BA		•	•			•																			
Troythix® 42BA		•	•			•			•			•													
Troythix® 60X		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
Troythix® 150ACS		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
Troythix® 152H		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							

Please confirm product availability in your region/country with your Arxada sales representative.

**Table 9 - Powdermate® Additives**

Product	Features	Use Levels (% Weight)	Description	Incorporation	Suggested Application Systems							
					OEM	Automotive Body, Trim & Auxiliary	Clear Coat	Appliance	Architectural	Lawn & Garden	General Industrial	Functional
<b>Flow and Leveling</b>												
Powdermate® 460PFL	Enhanced flow and levelling	0.5 - 2.0	Acrylic flow modifier	Add to premix	•	•			•	•	•	•
Powdermate® 486CFL	Excellent clarity and surface smoothness	0.5 - 2.0	Amide-modified polyether oligomer	Add to premix, high shear premixing	•	•	•	•	•	•	•	
Powdermate® 507PFL	Excellent surface smoothness & distinctness of image	0.5 - 2.0	Amide modified polymeric ester	Add to premix	•	•		•	•	•	•	•
Powdermate® 570FL	Excellent clarity & improved surface smoothness with intercoat adhesion	0.5 - 2.0	Amide-modified polyether oligomer	Add to premix, high shear premixing	•	•	•	•	•	•	•	
Powdermate® 575FL	Excellent clarity & improved surface smoothness with intercoat adhesion	1.0 - 3.0	Amino ester modified polyether oligomer	Add to premix	•	•	•	•	•	•	•	
<b>Degasser</b>												
Powdermate® 542DG	Non-yellowing Degassing with Excellent Clarity	0.5 - 2.0	Polymer-based surfactant	Add to premix	•	•	•	•	•	•	•	
Powdermate® 550DG	Non-yellowing Degassing	0.5 - 2.0	Amide-modified phenol surfactant	Add to premix, post-blend	•	•	•	•	•	•	•	•
<b>Texturizing Agent</b>												
Powdermate® 408TEX	Acrylic texturizing agent for stripple textures	0.5 - 2.0	Polymer-based surfactant	Post-blend							•	•
Powdermate® 508TEX	Post-blend texturing additive with excellent consistency	0.5 - 2.0	Polymer-based surfactant	Post-blend	•			•	•	•	•	•
<b>Pigment Wetting</b>												
Powdermate® 520 PWS	Excellent pigment and substrate wetting	0.5 - 2.0	Polymer-based surfactant	Add to premix	•	•	•	•	•	•	•	•

Please confirm product availability in your region/country with your Arxada sales representative.

# Arxada Driers & Anti-Skinning Agents

Arxada driers and metal carboxylate products enable manufacturers to create value added, high performance coatings, including architectural, decorative, OEM/industrial, traffic, and gel coat, as well as inks, lubricants, and many other industrial and consumer materials. Arxada offers a full portfolio of paint driers, which are shown in Table 10.

Over periods of prolonged paint storage, paint driers become deactivated – a condition known as loss-of-dry. The best defence is to incorporate a loss-of-dry inhibitor. In response to this challenge, Arxada developed Troymax™ Permady, a high-performance loss-of-dry inhibitor. By incorporating Troymax™ Permady into formulations, drying times can be maintained for significantly longer periods, extending product shelf-life and protecting the paint's commercial value.

Consumers and manufacturers are affected by the skinning of liquid products such as paints, stains, inks, and other coatings. Skinning is a premature, unwanted film-formation on liquid or slurried product surfaces. The risk of skinning can be reduced with the addition of Troymax™ Antiskin agents. Arxada's line of Troymax™ Antiskin products are shown in Table 11.



**Table 10 - Driers**

Product		Description
Troymax® Barium	12.5	Improves through-drying of coating and good pigment wetting characteristics
Troymax® Calcium	10NA, 8NA, 6NA, 5NA, 4NA	Helps to improve hardness and gloss as well as to reduce skin formation, silking and blooming
Troymax® Calcium Octoate	6, 5	Helps to improve hardness and gloss as well also reduce skin formation, silking and blooming
Troymax® Cobalt	12, 12 NEO, 10, 10 NEO, 8, 6, 2	Produces fast surface to the dry film
Troymax® Lithium	2	Promote through-drying, often used in high solids and water-dispersible alkyds
Troymax® Manganese	12, 10, 9, 6	Improve surface drying of a paint film and also possess through-drying properties
Troymax® Potassium	15	Potassium carboxylates work with Cobalt in thermo-set systems
Troymax® Strontium	10	Improve through-drying under adverse conditions such as high humidity and low temperatures
Troymax® Zinc	16, 12, 10, 6	Demonstrates anti-oxidant properties, keeps auto-oxidative films 'open', permitting hardening throughout
Troymax® Zirconium	24, 18, 12, 10, 6	Improves through-dry of auto-oxidating drying systems
Troychem® Copper	8	Possesses some catalytic activity and tends to produce more consistent films
Troychem® Zinc	8	Demonstrates anti-oxidant properties, keeps auto-oxidative films 'open', permitting hardening throughout
Troychem® Iron	6	Effective drying catalyst for baking finishes
Troymax® Permadry	Drier blends	Loss-of-dry inhibitor
Troychem® Calcium 6WD	Water dispersible systems	Helps to improve hardness and gloss as well as to reduce skin formation, silking and blooming
Troymax® Cobalt 6WD	Water dispersible systems	Produces fast surface to the dry film
Troychem® Manganese 6WD	Water dispersible systems	Improve surface drying of a paint film and also possess through-drying properties
Troymax® Zirconium 12WD	Water dispersible systems	Improves through-drying of auto-oxidating drying systems
Troymax® Lithium	2	Promotes through-drying
Troymax®	350	Non-metallic driers
Troymax®	CZ69, CSD, 123, 2002, KC10, BXPB	Standard drier blends
Troymax®	858	Zinc soap of steric acid modified

**Table 11 - Anti-Skinning Agents**

Product	Description
Troymax® Antiskin OS	Oxime-based Anti-Skinning Agents
Troymax® Antiskin OP	Cyclohexanone Oxime-based Anti-Skinning Agents
Troymax® Antiskin OL	Non-Oxime Anti-Skinning Agents
Troymax® Antiskin B	Methyl Ethyl Ketoxime-based Anti-Skinning Agent
Troymax® Antiskin MP	Methyl Propyl Ketoxime-based Anti-Skinning Agent

Please confirm product availability in your region/country with your Arxada sales representative.



## World-Class Products, Services, & Support

Arxada is a global manufacturer focused on innovation and development of advanced antimicrobials and additives that enhance products and processes. Arxada augments its portfolio of products with world-class technical services that enable customers worldwide to achieve excellent results cost-effectively.

### Arxada's special areas of expertise include:

- Prevention of microbial degradation
- Global regulatory support with regional and national expertise
- Worldwide technical services including microbiology & analytical laboratories



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# Market Trends & Applications

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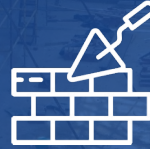
An Overview and our offerings

Presented by Mr. Jacob Soly





Paints &  
Coatings



Construction  
Chemicals



Textiles



Adhesives



**VISEN**

**VISEN Industries. Ltd.**  
***Bonds for Life***

---

***ISSPA 2022***  
***FOCUS ON THE FUTURE***



# ISO CERTIFICATIONS

✓ **ISO 9001:2015 Certified from SGS, London, UK**  
for Quality Management

✓ **ISO 14001 Certified from SGS**  
for Environmental Management

✓ **ISO 45001 Certified from SGS**  
For Occupational Health & Safety



**Production Capacity**

TOTAL  
**3,00,000**  
MT p.a.



# Our Global Presence

UNITED ARAB EMIRATES



Sharjah

INDIA



Jammu



New Delhi



Silvassa

Kolkata



Tarapur



MUMBAI,  
Headquarters



Chennai

Kochi



Headquartered in Mumbai, India



Subsidiary : Visen Polymers FZE,  
Sharjah, UAE



Paint Application  
Laboratory



Office Locations /  
Branches

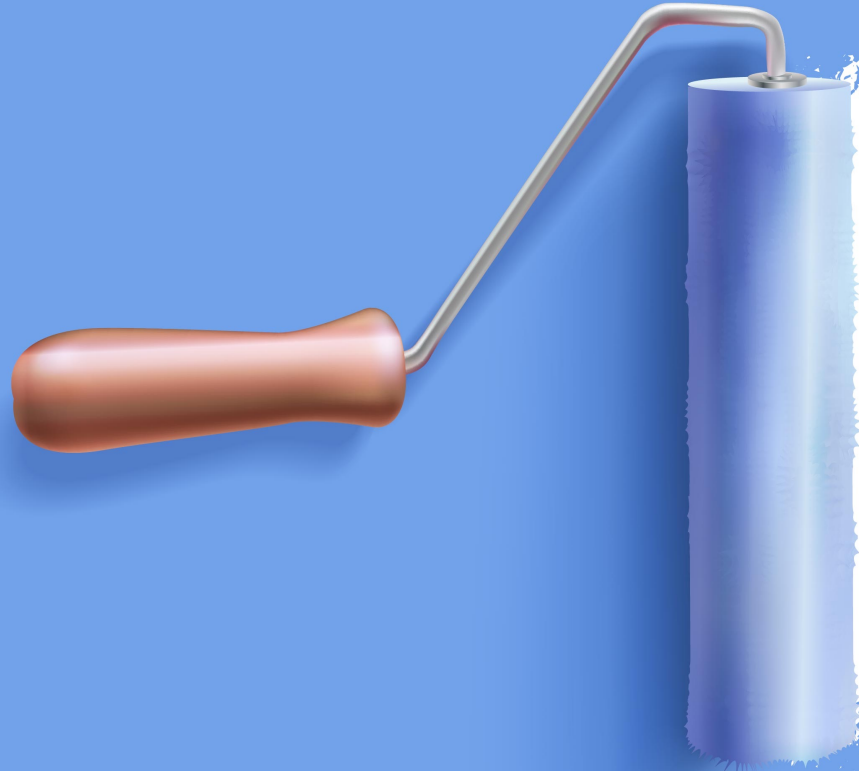


Factories



Research &  
Development Centre

# Fundamental Applications for our products



▣ **Binder**

▣ **Thickener**

▣ **Dispersant**

▣ **Opacifier**

▣ **Adhesives**

▣ **Adhesive base for  
formulators**



**Styrene Acrylic**

**Pure Acrylic**

**Nano Latex**

**Elastomeric Latex**

**Cement Compatible Flexible Latex**

**UV Curable Latex**

# < Offering a Range of Chemistries for Paints & Coatings

**Vam Acrylate**

**Vam Veova Copolymer**

**Vam Veova Acrylate Terpolymer**

**Opaque Polymer**

**PVAc Homo-polymers  
(Plasticized & Unplasticized)**



# Eco friendly polymer emulsions

**Alkyl  
Phenol  
Ethoxylate  
Free**

**Nonyl  
Phenol  
Ethoxylate  
Free**

**Octyl  
Phenol  
Ethoxylate  
Free**



**Formaldehyde  
Free**



**Ammonia  
Free**

**Metals  
Free**

**Glycol  
Free**

**& More...**



# FOCUS ON THE FUTURE

---



# Target Application & Products

---

## Segment 1: Paints & Coating

# ANTI –EFFLORESCENCE COATING

## VISICRYL 7041 M

Chemistry: Ultra Fine Particle Size Styrene

MFFT: 19 °C

Environment friendly: APEO, Formaldehyde Free



# HIGH SHEEN, LOW VOC INTERIOR PAINT

## VISICRYL 8155 E1

Chemistry: 55% Solids Pure Acrylate Latex

MFFT: 23 °C

Environment friendly: APEO, Formaldehyde Free



# STAIN RESISTANT AND EASY CLEAN INTERIOR PAINT

## VISICRYL 8850 E

Chemistry: 55% Solid Pure Acrylate Latex

MFFT : +37 °C

Environment friendly: APEO, Formaldehyde Free Latex



# WEATHER COAT WITH HIGH DPUR EXTERIOR PAINT

## VISICRYL 8850 E

Chemistry: 50% Solid Pure Acrylate Latex

MFFT : +37 °C

Environment friendly: APEO & Formaldehyde Free Latex



# ROOF TILE COATINGS

## VISICRYL 8347

Chemistry: 47% Solid Pure Acrylate Latex

MFFT : +48 °C

Environment friendly: APEO, Formaldehyde Free And Ammonia Free Latex



# HYBRID ACRYLATE FOR CLEAN ROOM COATINGS

## VISICRYL 8845

Chemistry: 45% Solid Pure Acrylate Latex

MFFT : +37 °C

Environment friendly: APEO, Formaldehyde Free



# FLOOR PAINTS / COATINGS

## VISICRYL 8850 E

Chemistry: 50% Solid Pure Acrylate Latex

MFFT : +37 °C

Environment friendly: APEO, Formaldehyde Free



# ANTI-CARBONATION COATINGS

## VISICRYL 7660

Chemistry: 62% Solid Pure Acrylate Latex

MFFT : <0 °C

Environment friendly: APEO, Formaldehyde Free



# STORE FINISH PAINT

## VISICRYL 8155 E1

Chemistry: 55% Solid Pure Acrylate Latex

MFFT : +23°C

Environment friendly: APEO, Formaldehyde Free And Ammonia Free Latex



# HIGH GLOSS INTERIOR & EXTERIOR PAINT

## VISICRYL 8249

Chemistry: 50% Solid Pure Acrylate Latex

MFFT : +36°C

Environment friendly: APEO, Formaldehyde

Free And Ammonia Free Latex

## VISICRYL 8345 HG

Chemistry: 50% Solid Pure Acrylate Latex

MFFT : +37°C

Environment friendly: APEO, Formaldehyde

Free And Ammonia Free Latex



# THERMAL INSULATION COATINGS

## VISICRYL 7660

Chemistry: 62% Solid Pure Acrylate co-polymer

MFFT : <0°C

Environment friendly: APEO, Formaldehyde Free And Ammonia Free Latex



# ROAD MARKING PAINT

## VISICRYL 8751

Chemistry: 50% Solid Pure Acrylate co-polymer



# Target Application & Products

---

## Segment I: Construction Chemicals

# 2K CEMENTITIOUS FLEXIBLE WATER PROOFING

## VISICRYL 7556

Chemistry: 56% Elastomeric Styrene Acrylate Latex

MFFT : -5°C

Excellent Cement Compatibility, Pot Life, etc.

VISICRYL 7556 is also recommended for potable water application as well.



# BONDING AGENT, FLOOR SCREEDS, REPAIR MORTAR, WATER PROOFING

## VISICRYL 86

Chemistry: 47% Solid Pure Acrylate Latex

MFFT : 11°C

**Aqueous Acrylate Copolymer Emulsion**



# ACRYLIC SEALER, PENETRATING PRIMER

## VISICRYL 7041 M

Chemistry: 40% Solid Ultrafine Particle Size, Styrene Acrylate

MFFT : +20°C

Aqueous APEO And Formaldehyde Free



# ACRYLIC SEALANT

## VISICRYL 7620

Chemistry: 50% Solid Styrene Acrylate

MFFT : +18°C

Aqueous APEO And Formaldehyde Free



# ROOF COATING / WATER PROOF COATING / DAMP PROOFING

## VISICRYL 7555

Chemistry: 56% Solid Styrene Acrylate

MFFT : - 6°C

## VISICRYL 7290 (CO-BINDER)

Chemistry: 50% Solid Styrene Acrylate

MFFT : +20°C



# POLYMER MODIFIED BITUMEN FOR WATER PROOFING

## VISICRYL 7668

Chemistry: 50% Solid Styrene Acrylate

MFFT : +22°C

Aqueous Styrene – Acrylate Copolymer Emulsion



# COATING FOR BADMINTON, TENNIS, BASKET BALL COURTS

## VISICRYL 8845

Chemistry: 45% Solid Acrylic Hybrid Emulsion

MFFT : +37°C

Aqueous APEO & FORMALDEHYDE FREE



# CURING COMPOUND FOR CONCRETE

## VISICRYL 86

Chemistry: 47% Solid Acrylic Polymer

MFFT : +11°C

Aqueous Acrylate Copolymer Emulsion



# HACK-AID

## VISICRYL HA 2023

Chemistry: 47% Solid Acrylic Polymer



# SOIL STABILIZATION

**VISICRYL 9055**

Chemistry: Acrylate Co-polymer

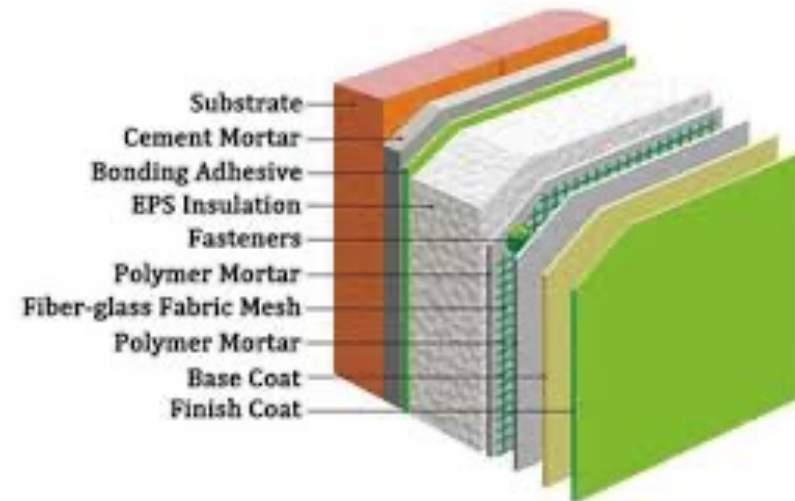


# ENERGY INSULATION & FINISHING SYSTEM (EIFS)

## Products:

**VISICRYL 7556**

**VISICRYL 7290**



# HVAC COATINGS

## **VISICRYL 7796**

Chemistry : Styrene Acrylate Latex

## **VISICOL 1101**

Chemistry : PVAc Homopolymer



# Thank You



## **Corporate Head Office**

501, Stanford, Plot No. 554,  
Andheri (West), Mumbai, India.



## **Official Website**

[www.Visen.net](http://www.Visen.net)



## **E-mail Address**

[info@visen.net](mailto:info@visen.net)  
[marketing@visen.net](mailto:marketing@visen.net)



## **Contact Number**

+ 91 22 6644 3333



**“NEO FIBERS FOR NEXT GENERATION CONCRETE”**



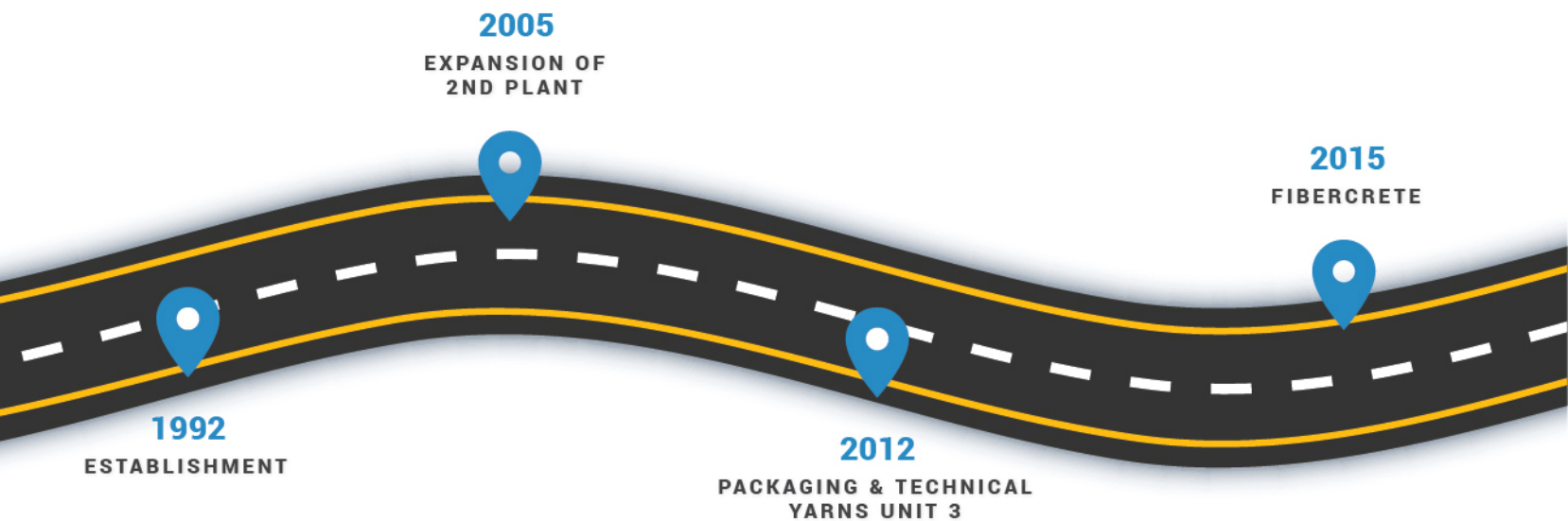
**Kalyani**  
*Inspire. Ideate. Innovate.*

## Who is FIBERCRETE

Kalyani Polymers, the holding company of FIBERCRETE; with a strong background in Polypropylene Extrusion Technologies and associated production line, we have a dedicated team of Innovation, Research and Development wings which is responsible for new developments. And the Quality wing is responsible for maintaining the Quality of our products. One of our corner stone's of success is to offer the customer consistency of products over and again trying to better our own standards of Quality, Delivery and Service.

Since our establishment in the year 1992, we have won the satisfaction of our clients in Domestic and International markets. Having set a strong foothold in early 1990's, we now export to more than 45 countries globally and have been achieving a GAGR of Approx 15% Year on Year.

We are certified by CIBIL, FKCCI, AIFTMA, ICI, CE, TAI and Star Export House accredited by DGFT and other trade bodies.



“ A Customer is the most important visitor in our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is part of it. We are not doing him a favor by serving him. He is doing us a favor by giving us an opportunity to do so. ”

- Mahatma Gandhi



## Why FIBERCRETE

FIBERCRETE® has been conceptualized due to the desire and a vision to offer value added benefits to the Construction sector. We are using the most modern extrusion or production technologies to offer world class fiber products under "MAKE IN INDIA" and "# ATMANIRBHAR" to cater to the requirements of INDIA and the WORLD.

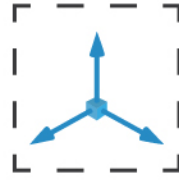
FIBERCRETE was launched after extensive Research & Development and collaboration with leading RMC / EPC companies in INDIA and around the World.



CRACK CONTROL



DURABILITY



3D REINFORCEMENT



ENHANCE FINISH



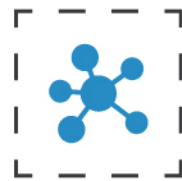
COHESION OF MIX



CORROSION RESISTANCE



LIGHT WEIGHT



BETTER BONDING

### STEEL REINFORCEMENT

- ✗ Expensive
- ✗ Gets Corroded
- ✗ Labour Intensive
- ✗ Time Consuming
- ✗ 2D Reinforcement
- ✗ Machines / Equipments

### FIBERCRETE FIBERS

- ✓ Cost Effective
- ✓ No Corrosion Effect
- ✓ No Labour
- ✓ Less Time
- ✓ 3D Reinforcement
- ✓ No Machines / Equipment



SALT : FOOD



FIBERS : CONCRETE

## APPROVALS

Our FIBERCRETE Fibers are tested in laboratory as per EFNARC, ASTM & IS Standards. Our products are approved by following Organizations.



IIT Madras  
Chennai



Stedrant Technoclinic  
Bangalore



SKG Project & Engg  
Pvt Ltd, Mumbai



CIPET  
Mysore &  
Hyderabad



Shiram Institute  
for Industrial Research  
New Delhi



Bureau Veritas  
India Pvt. Ltd  
Bangalore



Bombay Textile  
Research Association  
Mumbai

## FIBERCRETE - FF

(Synthetic Fibrillated Mesh Fiber)

FIBERCRETE FF is a Synthetic Fibrillated Mesh Fiber for concrete reinforcement that complies with standard specifications for Fiber Reinforced Concrete and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 kg/m<sup>3</sup>. FIBERCRETE FF have been shown to greatly reduce shrinkage cracking by as much as 83% when compared to plain concrete.

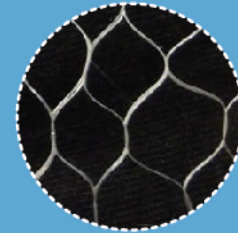
### PARAMETERS

Material	Polypropylene
Colour	Natural
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	40 Microns
Available Lengths	6mm, 12mm, 20mm (Other lengths upon request)
Tensile Strength	> 600 MPa
Young's Modulus	> 3.5 GPa
Aspect Ratio	> 150
Electrical Conductivity	Nil
Acid and Alkali Resistance	Excellent
Water Absorption	Nil
Dosage	0.9 Kg per Cubic Meter of Concrete

### SPECIFICATIONS



"MAGIC-MESH"

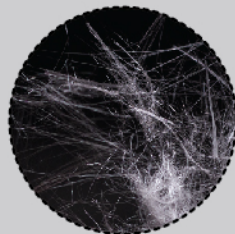


### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516 – 1959 STANDARDS)

Grade of Concrete (FRC)	M40
Compressive Strength	50.5 N/mm <sup>2</sup>
Flexural Strength	4.8 N/mm <sup>2</sup>



"PLASTER-PARTNER"



### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516 – 1959 STANDARDS)

Grade of Concrete (FRC)	M40
Compressive Strength	50.8 N/mm <sup>2</sup>
Flexural Strength	5.6 N/mm <sup>2</sup>

## FIBERCRETE - MF

(Synthetic Monofilament Fiber)

FIBERCRETE MF is a Synthetic Monofilament Fiber for concrete reinforcement that complies with standard specification for Fiber Reinforced Concrete and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 kg/m<sup>3</sup>. FIBERCRETE MF have been shown to greatly reduce shrinkage cracking by as much as 81% when compared to plain concrete.

### PARAMETERS

Material	Polypropylene
Colour	Natural
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	20 Microns
Available Lengths	3mm, 6mm, 12mm, 20mm (Other lengths upon request)
Tensile Strength	> 1000 MPa
Young's Modulus	> 4 GPa
Aspect Ratio	> 150
Electrical Conductivity	Nil
Acid and Alkali Resistance	Excellent
Water Absorption	Nil
Dosage	0.9 Kg per Cubic Meter of Concrete

### SPECIFICATIONS

## FIBERCRETE - PF (Polyester Monofilament Triangular Fiber)

FIBERCRETE PF is a Polyester Monofilament Triangular Fiber for concrete reinforcement that complies with standard specification for Fiber Reinforced Concrete and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 or 0.6 kg/m<sup>3</sup>. FIBERCRETE PF have been shown to greatly reduce shrinkage cracking by as much as 82% when compared to plain concrete.

### PARAMETERS

Material	Polyester
Colour	Natural
Specific Gravity	1.30
Melting Point	260 °C
Diameter / Thickness	20 Microns
Available Lengths	3mm, 6mm, 12mm, 20mm (other lengths upon request)
Tensile Strength	> 1000 MPa
Young's Modulus	> 4 GPa
Aspect Ratio	> 150
Electrical Conductivity	Low
Acid and Alkali Resistance	Excellent
Water Absorption	Low
Dosage	0.9 or 0.6 Kg per Cubic Meter of Concrete

### SPECIFICATIONS

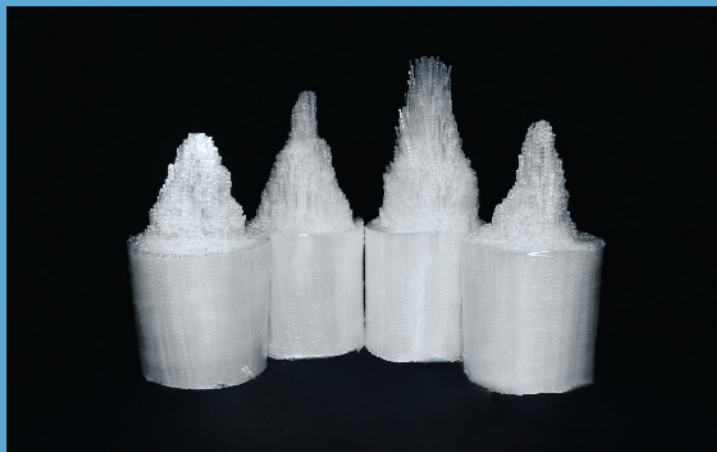


"ECO-COST"



### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516 – 1959 STANDARDS)

Grade of Concrete (FRC)	M25
Compressive Strength	35.3 N/mm <sup>2</sup>
Flexural Strength	5.5 N/mm <sup>2</sup>



## SYNTHETIC MACRO FIBERS

FIBERCRETE EF & FIBERCRETE WF are the Structural Macro Fibers for Concrete Reinforcement that complies with EFNARC, ASTM, IRC, MORTH, RVNL, MES Standards. These macro fibers are designed to infuse the concrete with higher levels of energy absorption, flexural toughness, durability & to increase the post cracking residual strength of concrete. It also helps to mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 5 kg/m<sup>3</sup>.

Macro Fibers play a vital role in design and construction of Ground Supported Slabs, Mezzanine Deck Slabs, Precast Concrete, PQC Roads, Industrial Flooring, Tunnel Lining, Tunnel Shotcrete and a wide range of other applications.

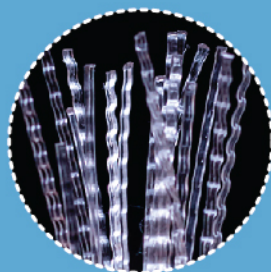
### PARAMETERS

Material	Polypropylene
Specific Gravity	0.91
Melting Point	165 °C
Equivalent Diameter	0.8 mm
Available Lengths	36mm, 45mm, 50mm, 55mm (Other lengths upon request)
Tensile Strength	> 600 MPa
Young's Modulus	> 6 GPa
Aspect Ratio	> 45
Acid and Alkali Resistance	Excellent
Water Absorption	Nil
Electrical Conductivity	Nil
Dosage	5 Kg per Cubic Meter of Concrete

### SPECIFICATIONS



**FIBERCRETE - EF**  
(Embossed Macro Fiber)



**FIBERCRETE - WF**  
(Waved Macro Fiber)

## FIBERCRETE - FE (Twisted Fibrillated Ferro Fiber)

FIBERCRETE FE is a Synthetic Twisted Fibrillated Ferro Fiber, which yields High-Performance Concrete Reinforcement that complies with the standard specification for Fiber Reinforced Concrete. This heavy duty fiber offers long term durability, structural stability and effective temperature / shrinkage crack control. Typically used at a dosage rate of 4 Kg/m<sup>3</sup>.

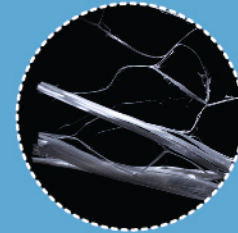
### PARAMETERS

Material	Polypropylene
Colour	Cement Grey
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	45 Microns
Available Lengths	36mm, 55mm (Other lengths upon request)
Tensile Strength	> 575 MPa
Young's Modulus	> 4 GPa
Aspect Ratio	> 800
Acid and Alkali Resistance	Excellent
Water Absorption	Nil
Electrical Conductivity	Nil
Dosage	4 Kg per Cubic Meter of Concrete

### SPECIFICATIONS



"STEEL-STRONG"



### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516 – 1959 STANDARDS)

Grade of Concrete (FRC)	M40
Compressive Strength	51.4 N/mm <sup>2</sup>
Flexural Strength	5.4 N/mm <sup>2</sup>



"HYBRID-SOLUTION"



### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516 – 1959 STANDARDS)

Grade of Concrete (FRC)	M40
Compressive Strength	51.4 N/mm <sup>2</sup>
Flexural Strength	5.4 N/mm <sup>2</sup>

## FIBERCRETE - HY (Ferro Monofilament Hybrid Fiber)

FIBERCRETE HY is a combination of both Ferro Fiber and Monofilament Fiber of same or different lengths for concrete reinforcement that complies with standard specifications for Fiber Reinforced Concrete. This fiber is specifically designed to with stand high static loads and dynamic loads and to help mitigate the formation of shrinkage cracks in concrete. Typically used at a dosage rate of 5 Kg/m<sup>3</sup>.

### PARAMETERS

Material	Polypropylene
Colour	Cement Grey
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	45 Microns
Available Lengths	36mm, 55mm (Other lengths upon request)
Tensile Strength	> 575 MPa
Young's Modulus	> 4 GPa
Aspect Ratio	> 800
Electrical Conductivity	Nil
Acid and Alkali Resistance	Excellent
Water Absorption	Nil
Dosage	5 Kg per Cubic Meter of Concrete

### SPECIFICATIONS

# ARRAY OF APPLICATION OF SYNTHETIC FIBERS



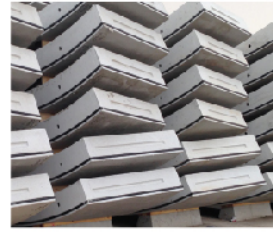
Shotcrete



Highway (PQC)



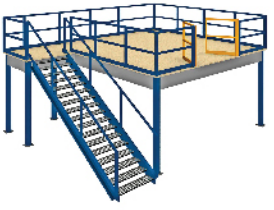
Industrial Flooring



Precast Concrete



Plastering Mortar



Mezzanine Deck Slabs



Tunnel Lining



Refractory Bricks



Cement & Gypsum Boards



Jaali Screens



Airport Runway



Paver Blocks



Sea Ports



Solid / Halo Blocks



Parking Area



Canal Lining



Pre-Stressed Concrete



Thermal Power Plant



Pervious Concrete



Nuclear Power Plant



Soil Stabilization



Loss Circulation Fluid



Painting



Cover Block



Roof Coating



Sealants



Water Proofing



Wall Putty



Green House Slab



Chimneys

## BATCHING TIPS



Manual Mixing

Prepare a dry mortar and make a pond. Add some water into pond and prepare 30% of dry mortar into slurry. Then open the Fiber packet and sprinkle fibers onto slurry uniformly and mix thoroughly for 5 to 10 minutes. Then mix that slurry with remaining dry mortar until you get a uniform paste.



Pan Mixer

After adding of water into the dry mix concrete, Open the Fiber packet and slowly sprinkle fibers into a rotating mixer. Ensure that, the mixer has to be rotated at maximum RPM after adding fibers.



RMC Plant

At the time of addition of water, Open the Fiber packet and pour fibers into the mixer. After dispatching concrete from the mixer into truck, the truck has to rotate at maximum RPM so that fibers distributes uniformly.



For Easy Fiber calculator and to get free samples, scan below QR code



[www.fibercrete.in](http://www.fibercrete.in)

Connect with us:



Mfd By:

**KALYANI POLYMERS PVT LTD.**

#46/1, 11km off Kanakapura Rd, Doddakallasandra, Bangalore - 560 062, India.

Ph: +91-80-40991198 / Mobile: +91 9845919650 / +91 9886480224

Mail: [sales@fibercrete.in](mailto:sales@fibercrete.in) | Website: [www.fibercrete.in](http://www.fibercrete.in)



“NEO FIBERS FOR NEXT GENERATION CONCRETE”

## FIBERCRETE - MF (Synthetic Monofilament Fiber)



Fiber Material : 100% Virgin Polypropylene

Compliance:

- a) ASTM C 1116 (Standard Specification for Fiber Reinforced Concrete)
- b) IRC : SP : 46-2013, MORTH (Design and Construction of Fiber Reinforced Concrete Pavements)

Approvals:

- a) CivilAid Technoclinic Pvt. Ltd., Bangalore
- b) CIPET, Mysore and Hyderabad



FIBERCRETE MF is a Synthetic Monofilament Fiber for concrete reinforcement that complies with standard specification for Fiber Reinforced Concrete and Shotcrete, and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 kg/m<sup>3</sup>, FIBERCRETE MF have been shown to greatly reduce shrinkage cracking by as much as 88% when compared to plain concrete.

## FEATURES/BENEFITS

- Controls and mitigates plastic shrinkage cracking
- Reduces segregation and bleed-water
- Provides three-dimensional reinforcement against micro-cracking
- Increases surface durability
- Reduction of in-place cost versus wire mesh for temperature / shrinkage crack control
- Easily added to concrete mixture at any time prior to mixing

## PRIMARY APPLICATIONS

- Floor for industrial, commercial and residential concrete projects
- Footings, foundations, walls and tank applications
- Concrete pipe, vault structures and pre-cast / pre-stressed beams, PQC Roads, Parking Area, Pavers, Tunnels, Canals & All kinds of Plastering application.

## TECHNICAL INFORMATION

### TYPICAL ENGINEERING DATA

Material	Polypropylene
Colour	Natural
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	20 Microns
Available Lengths	6mm, 12mm, 24mm (Other lengths upon request)
Tensile Strength	1000 MPa
Young's Modulus	4 GPa
Aspect Ratio	> 300
Dispersion Coating	2%
Electrical Conductivity	Low
Acid and Alkali Resistance	Excellent
Corrosion Resistance	Very High
Water Absorption	Nil
Dosage	0.9 Kg per Cubic Meter of Concrete

### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516-1959 STANDARDS)

Grade of Concrete (FRC)	M25
Compressive Strength	50.8 N/mm <sup>2</sup>
Flexural Strength	5.6 N/mm <sup>2</sup>

## PACKAGING

Fibercrete MF is packed in 25 kg bags or 900 gms pack as required.

## SHELF LIFE

3 years in original, unopened packaging & stored in cool dry covered area.

## DIRECTIONS FOR USE

FIBERCRETE MF can be added to the concrete mixture at any time prior to placement of the concrete. It is generally recommended to add any fiber material at the ready-mix concrete plant during batching. Fibers must be mixed with concrete for a minimum of three (3) minutes at maximum mixing speed to ensure complete dispersion and uniformity. Dosage of usually 125gms per 50kg of Cement or 900 gms per cubic meter of concrete.

**OTHER SPECIFICATIONS CAN BE DONE UPON REQUEST.**



Mfd By:

**KALIYANI POLYMERS PVT LTD**

#46/1, 11km off Kanakapura Rd, Doddakallasandra, Bangalore - 560 062, India.

Ph: +91-80-40991198 / Mobile: +91 9845919650 / +91 9886480224

Mail: sales@fibercrete.in | Website: www.fibercrete.in



# Kalyani Polymers Pvt. Ltd.

AN ISO 9001:2015 COMPANY & EXPORT HOUSE



Survey No. 46/1, 11th KM, Off. Kanakapura Main Road, Doddakallasandra, Bangalore - 560 062, INDIA. Telefax : +91-80-2666 1287 / 4099 1198 / 2666 1303  
E-mail : info@kalyanipolymers.com Website : www.kalyanipolymers.com, CIN-U24299KA1995PTC017918

## Technical Data Sheet

### FIBERCRETE - MF (Synthetic Monofilament Fiber)

Sl. No.	Parameters	Standard	Specifications	Tolerance	Unit
1	Material	-	Polypropylene	-	-
2	Colour	-	Natural	-	-
3	Specific Gravity	ASTM D 792	0.91	± 0.05	-
4	Melting Point	ASTM D 3418	165	± 5	°C
5	Electrical Conductivity	-	Low	-	-
6	Acid & Alkali Resistance	KPPL-FC-08	Excellent	-	-
7	Water Absorption	-	Nil	-	-
8	Structure	KPPL-FC-01	Monofilament	-	-
9	Cross Section	KPPL-FC-02	Circular	-	-
10	Diameter / Thickness	KPPL-FC-03	20	± 5	Micron
11	Cutting Length	KPPL-FC-04	3	± 1	mm
12	Aspect Ratio	KPPL-FC-05	150	-	-
13	Dispersion Coating	KPPL-FC-06	2	± 0.5	%
14	Dispersion Test	KPPL-FC-07	Excellent	-	-
15	Tensile Strength	ASTM D 2256	1000	± 100	MPa
16	Young's Modulus	ASTM D 2256	4	± 0.5	GPa

The Products Supplied are in Compliance with the Requirements of the standard EN10204 type 2.2.

**Note:** 1. **Dosage of Fibers** : As per ASTM C 1579-13,

• 900 Gms per Cubic meter of Concrete • 125 Gms per Bag of Cement

2. **Product Expiry** : One Year from the Date of Supply

3. **Fibers Storage** : Store in a dry covered area and avoid direct sunlight

  
Shashidhar KH  
Technical Associate





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6	Acid & Alkali Resistance	KPPL-FC-08	Excellent	-	-
7	Water Absorption	-	Nil	-	-
8	Structure	KPPL-FC-01	Monofilament	-	-
9	Cross Section	KPPL-FC-02	Circular	-	-
10	Diameter / Thickness	KPPL-FC-03	20	± 5	Micron
11	Cutting Length	KPPL-FC-04	6	± 1	mm
12	Aspect Ratio	KPPL-FC-05	300	-	-
13	Dispersion Coating	KPPL-FC-06	2	± 0.5	%
14	Dispersion Test	KPPL-FC-07	Excellent	-	-
15	Tensile Strength	ASTM D 2256	1000	± 100	MPa
16	Young's Modulus	ASTM D 2256	4	± 0.5	GPa

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Shashidhar KH  
Technical Associate





**OCTAFINE<sup>®</sup>**

Specialize pigment preparation for  
water base decorative paints  
& emulsion



INDIAN CHEMICAL INDUSTRIES

The Pigment & Dyestuff Company



## Foreword...



Indian Chemical Industries, (INDIA) is the leading manufacturer of pigment preparations. These preparations are suitable for a wide range of end use applications like Liquid inks, Soaps & detergents, Paints & Decorative coatings, Rayons & Rubbers. The companies are serving its valuable clients since 60 years. The company has wide distribution networks for efficient and effective delivery. The company is well supported by qualified techno-commercial professionals for better customer service and application support. Adherence to quality management practices and total customer satisfaction are the company's prime objectives.

We continuously upgrade our products to meet the new challenges in the modern Hi-Tech world. In this brochure, we are displaying our pigment preparations. Specified products in these ranges are meant for diverse industrial applications.

Should there be a need of a new product development or new requirement, our business development teams will always be happy to work on new ideas. With these words, we present and dedicate this brochure to you.

## Product Range

### OCTAFINE®

OCTAFINE® are binder free pourable highly stable high solid fine preparations of selected pigment recommended for water based decorative paints & emulsions. They possess a high degree of light fastness, weather resistance, alkali, soap and lime resistance and are compatible with a wide range of aqueous paint binders.

All OCTAFINE® are fully dispersed and need only to be stirred to achieve full color strength. No additional milling is required or recommended. Meet EU regulation

### OCTASPERSE

OCTASPERSE are fine, stable anionic pigment preparations, which are widely recommended for coloration of soaps and detergents. OCTASPERSE offers excellent color development, strength, purity and brilliance of shades with no hazardous and toxic effects as pigments selected for preparation are completely safe and eco-friendly.

All OCTASPERSE are fully dispersed and need only to be stirred to achieve full color strength. No additional milling is required or recommended.

### OCTATONE

OCTATONE pigment preparations are safe and eco-friendly specialized products meant for coloration of water based flexography and gravure inks.

OCTATONE are fine stable pigment preparations, which have wide compatibility with various acrylic binders used in flexography and gravure printing. Pigments in OCTATONE preparations are selected to impart excellent alkali, soap fastness properties. They are produced to consistent color value and tint strength.

All OCTATONE are fully dispersed and need only to be stirred to achieve full color strength. No additional milling is required or recommended.

### OCTADOZE

OCTADOZE are proven highly recommended pigment preparation for mass coloration of rayon dope dyeing application. They are highly stable micro fine pigment preparations which have excellent stability in alkaline conditions, cellulose pulp.

All OCTADOZE are fully dispersed and need only to be stirred to achieve full color strength. No additional milling is required or recommended.

## OCTAPRENE

OCTAPRENE are stable fine preparations of selected organic pigments in anionic / nonionic medium, which have excellent compatibility with liquid latex system meant for dip applications. OCTAPRENE are characterized by high brilliance, high degree of acid resistance and can withstand acidic coagulation process.

All OCTAPRENE are fully dispersed and need only to be stirred to achieve full color strength. No additional milling is required or recommended.

### Product Advantages

- Low voc\*
- EN-71/3, 71/7\*, 71/9\* compliance.
- APEO free
- High pigment loading.
- Easy pourability.
- Broad compatibility.
- No milling required.
- Less inventory requirement.
- Wide range of Pigments selection.
- Non – settling characteristics.
- Excellent strength and gloss.

### Technical Information

All OCTA™ pigment preparations are carefully designed and controlled to meet exact standards for dispersion, pH, solids, strength and shade on a wet – weight bases. Retained samples are kept for shelf life of products from the time of shipment.

### Storage

The OCTA™ pigment preparations are subject to freezing. Care should be taken to issue that these products are protected from freezing and stored at temp. above 32°F(0°C).

### Handling and Transportation

Appropriate handling equipment should be used for handling of OCTA™ pigment preparation and liquid materials. Due care is required while transportation of OCTA™ pigment preparations, though ingredients are tested, found completely safe and no labeling is required.

\* Comply in certain product

## OCTAPOL

OCTAPOL are specialised well designed pigment dispersions speciality which are meant for coloration of Polyurethane foams.

OCTAPOL are based on selected pigment only, which donot influence foam properties and engineering properties of Polyurethane.

OCTAPOL have wide range of colors and exhibit have wide range of colors and exhibit outstanding fastness characteristics as well as resistance properties.

OCTAPOL are compatible with most ether type /ester type Polyurethane foam formulations.

### Health & Safety

Data sheets, MSDS forms and other pertinent information are available on request.

No side effects, toxic effects or any ill effects are known or reported by users so far. The OCTA™ pigment preparation series illustrated in this brochure is completely non-toxic.

### Certificate of Analysis

The OCTA™ pigment preparations are the best in terms of technical parameters as desired by today's pigment consumer. The product's C.O.A. provides a detailed analysis of these technical parameters based on industry standards. Computerized color assurance report enables the client's quality control lab to receive the desired technical information of our product supplies against approved standards.

### Ordering Information




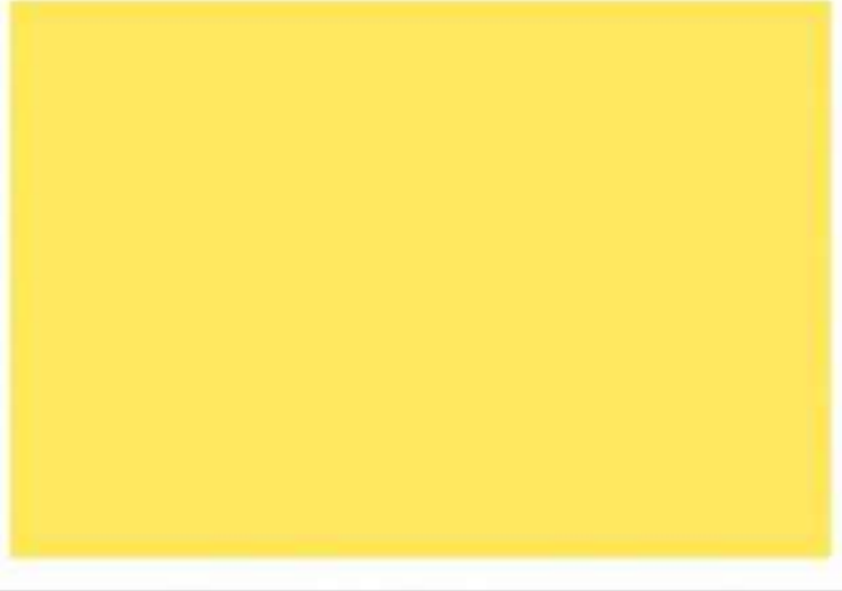

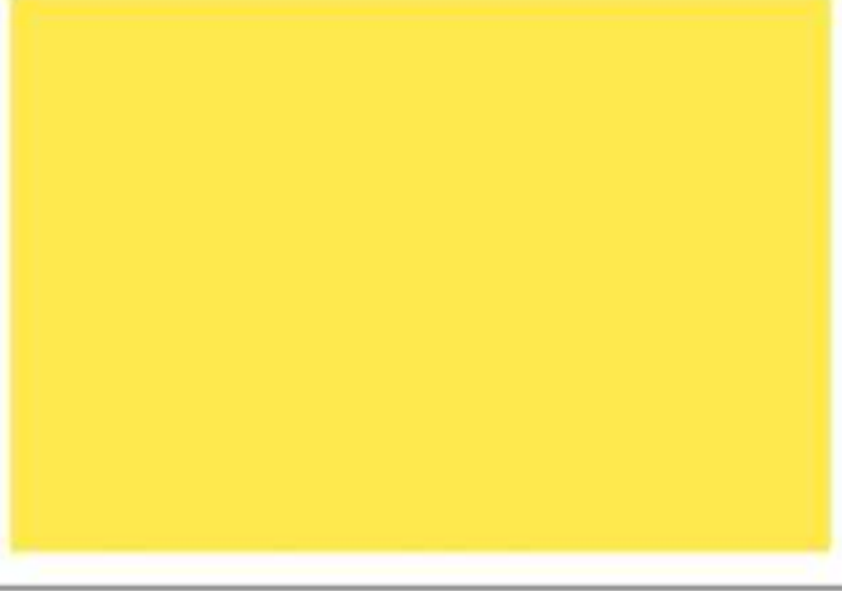











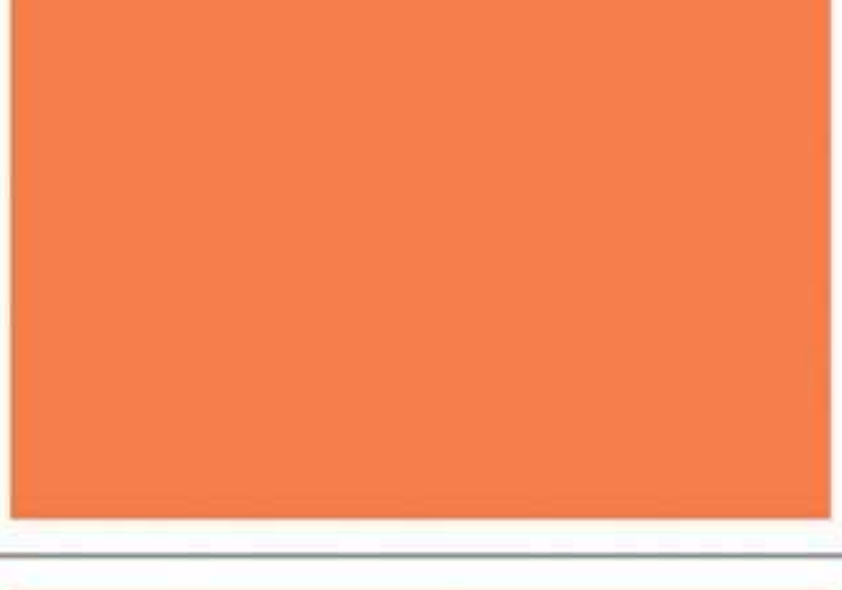

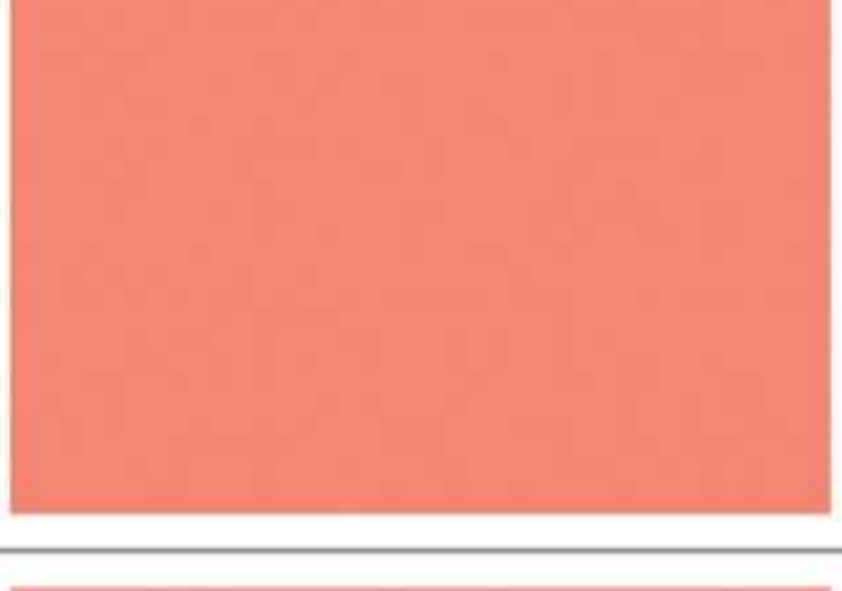
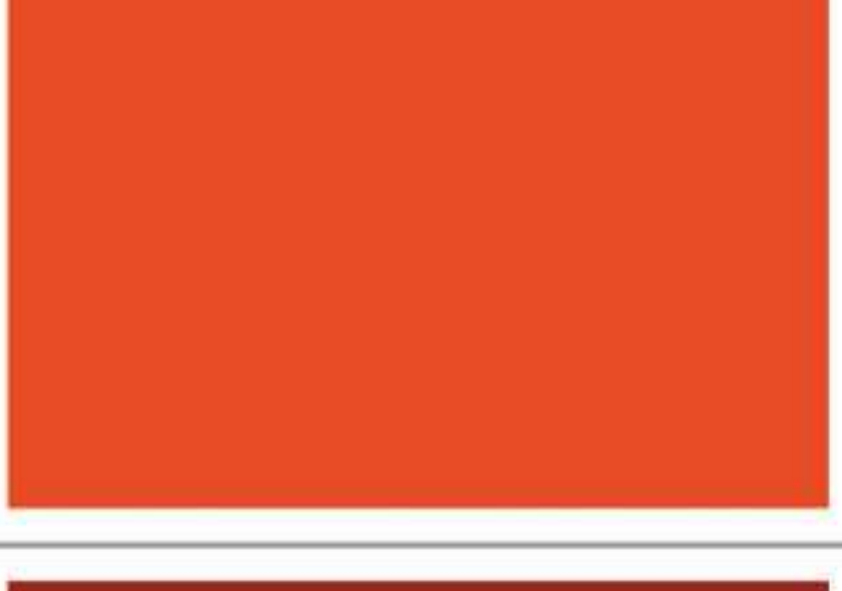
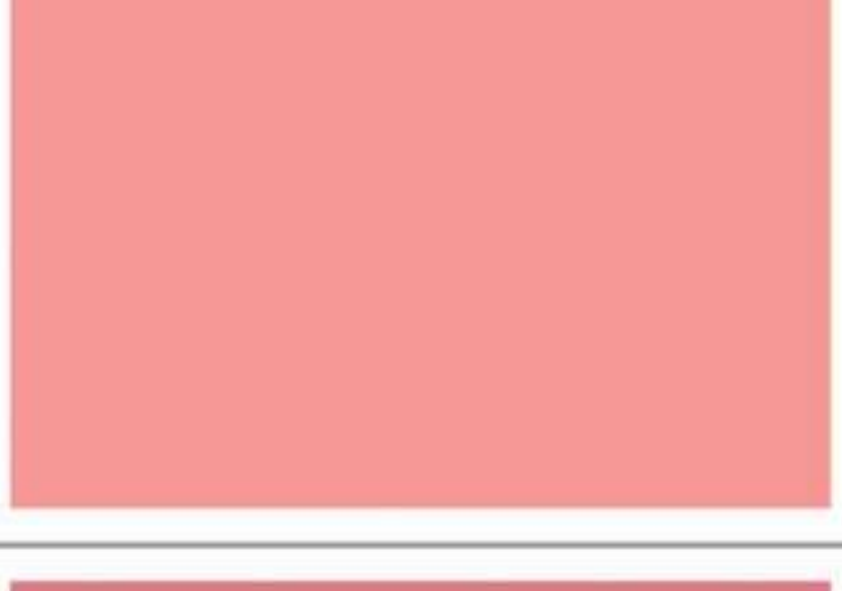


Products can be ordered in following packing sizes. 100gm, 500gm, 1Kg, 10Kg, 30Kg, 50Kg, 1000Kg Or as per customer's packaging requirement.

### Special Note to Users

The shades exhibited in this shade card are approximate based on CMYK and customers are requested to consider them only as guidelines. These shades should not be used as samples for testing fastness properties.






### Disclaimer

The information included in this catalogue is based on the most reliable data generated by our laboratory. Since the performance of OCTA™ pigment preparation also depends on the additives and vehicles system used, we recommend that customer should test the suitability of our products for their application.

OCTAFINE®	SHADE		TECHNICAL PROPERTIES OF BASIC PIGMENTS						APPLICATION					
			LIGHT FASTNESS		WEATHER FASTNESS		PIGMENT CONTENT (APPROX)	DENSITY (gm/cm <sup>3</sup> ) ICI METHOD	INTERI <sup>ER</sup>	EXTERI <sup>OR</sup>	AQUEOUS			
			MASS	TINT	MASS	TINT					PLASTIC EMULSION PAINTS	DISTEMPER	PAPER COATING	WOOD FINISH
C.I.NAME	MASSTONE 30%	TINT 4%												
YELLOW FGL Pigment Yellow 3			7-8	6-7	4-5	3	37 ± 3	1.20 ± 0.05	○	△	○	○	○	○
YELLOW FGR Pigment Yellow 1			6	5	3-4	2	40 ± 3	1.10 ± 0.05	○	△	○	○	○	○
YELLOW FBR Pigment Yellow 74			7-8	7	4	3	28 ± 3	1.09 ± 0.05	○	□	○	○	○	○
YELLOW R2H Pigment Yellow 138			8	7-8	4-5	4	37 ± 3	1.09 ± 0.05	○	○	○	○	○	○
YELLOW GLN Pigment Yellow 97			7	7	4-5	3-4	34 ± 3	1.11 ± 0.05	○	○	○	○	○	○
YELLOW HRG - 200 Pigment Yellow 154			8	8	5	5	32 ± 3	1.15 ± 0.05	○	○	○	○	○	○
YELLOW 2GX - 200 Pigment Yellow 74			7-8	7	4	3	32 ± 3	1.13 ± 0.05	○	□	○	○	○	○
YELLOW FSR - 200 Pigment Yellow 83			7	6-7	4	3	38 ± 3	1.14 ± 0.05	○	□	○	○	○	○
ORANGE GLR 200 Pigment Orange 34			6	5	3	2	41 ± 3	1.17 ± 0.05	○	△	○	○	○	○
ORANGE FYK Pigment Orange 5			6	5	3-4	3	27 ± 3	1.12 ± 0.05	○	△	○	○	○	○
ORANGE RAS Pigment Orange 73			8	8	5	5	22 ± 3	1.04 ± 0.05	○	○	○	○	○	○
RED FRR Pigment Red 3			7	3	3	2	35 ± 3	1.10 ± 0.05	○	□	○	○	○	○



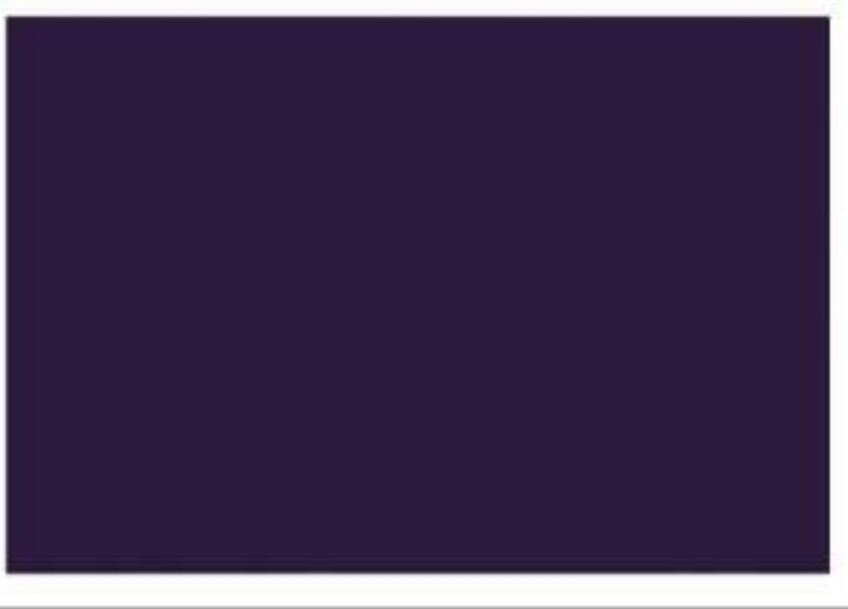












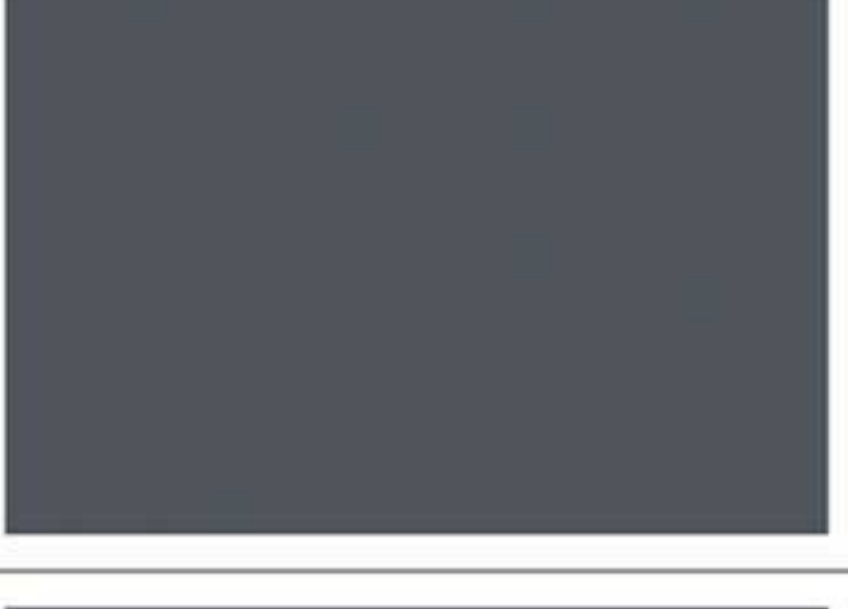
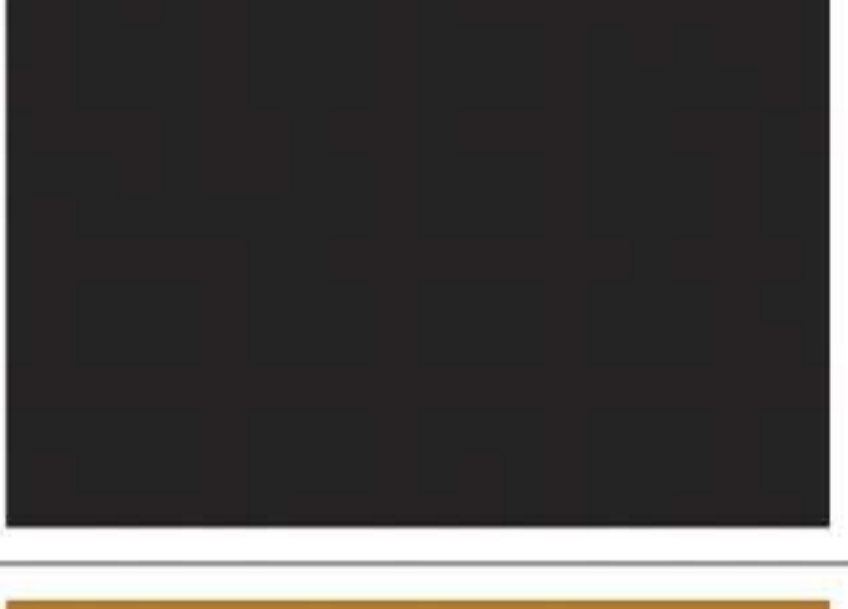







LIGHT FASTNESS : 1 = POOR, 8 = BEST ● WEATHER FASTNESS : 1 = POOR, 5 = BEST \* LV = LOW VOC

○ = SUITABLE □ = POTENTIAL FOR EXTERIOR APPLICATION △ = NOT SUITABLE

OCTAFINE®	SHADE		TECHNICAL PROPERTIES OF BASIC PIGMENTS						APPLICATION					
			LIGHT FASTNESS		WEATHER FASTNESS		PIGMENT CONTENT (APPROX)	DENSITY (gm/cm <sup>3</sup> ) ICI METHOD	INTERNER	EXTERIOR	AQUEOUS			
			MASS	TINT	MASS	TINT					PLASTIC EMULSION PAINTS	DISTEMPER	PAPER COATING	WOOD FINISH
C.I.NAME	MASSTONE 30%	TINT 4%												
RED J2K Pigment Red 170			7	6-7	4	3	38 ± 3	1.09 ± 0.05	○	○	○	○	○	○
RED FSR Pigment Red 112			6-7	6-7	4	3	42 ± 3	1.16 ± 0.05	○	○	○	○	○	○
RED FBR Pigment Red 112			6-7	6-7	4	3	40 ± 3	1.17 ± 0.05	○	○	○	○	○	○
RED FCA Pigment Red 254			8	7-8	4-5	4	46 ± 3	1.15 ± 0.05	○	○	○	○	○	○
RED B2F Pigment Red 254			8	7-8	4-5	4	41 ± 3	1.13 ± 0.05	○	○	○	○	○	○
RED FKT Pigment Violet 19			8	8	4	4-5	22 ± 3	1.10 ± 0.05	○	○	○	○	○	○
PINK FYB Pigment Red 122			8	7-8	4	4-5	24 ± 3	1.07 ± 0.05	○	○	○	○	○	○
GREEN LEMON Pigment Yellow 74			7-8	7	4	3	14 ± 3	1.04 ± 0.05	○	□	○	○	○	○
GREEN LRY Pigment Green 7			8	8	5	4-5	28 ± 3	1.18 ± 0.05	○	○	○	○	○	○
GREEN RBC Pigment Green 7			8	8	5	4-5	48 ± 3	1.36 ± 0.05	○	○	○	○	○	○
GREEN FYB Pigment Green 7			8	8	5	4-5	54 ± 3	1.38 ± 0.05	○	○	○	○	○	○
BLUE F2G - 200 Pigment Blue 15:3			8	8	5	4-5	45 ± 3	1.22 ± 0.05	○	○	○	○	○	○

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			MASS	TINT	MASS	TINT					PLASTIC EMULSION PAINTS	DISTEMPER	PAPER COATING	WOOD FINISH
C.I.NAME	MASSTONE 30%	TINT 4%												
BLUE FBG Pigment Blue 15:3			8	8	5	4-5	38 ± 3	1.04 ± 0.05	○	○	○	○	○	○
BLUE FBB Pigment Blue 15			8	8	5	4-5	38 ± 3	1.16 ± 0.05	○	○	○	○	○	○
BLUE B2N-L Pigment Blue 15			8	8	5	4-5	39 ± 3	1.21 ± 0.05	○	○	○	○	○	○
BLUE B2N Pigment Blue 15			8	8	5	4-5	43 ± 3	1.24 ± 0.05	○	○	○	○	○	○
VIOLET FRBB Pigment Violet 23			8	7	4-5	4	8 ± 3	1.04 ± 0.05	○	○	○	○	○	○
VIOLET FRM Pigment Violet 23			8	7	4-5	4	10 ± 3	1.07 ± 0.05	○	○	○	○	○	○
BLACK GRC Pigment Black 7			8	8	5	5	33 ± 3	1.23 ± 0.05	○	○	○	○	○	○
BLACK FRK Pigment Black 7			8	8	5	5	36 ± 3	1.25 ± 0.05	○	○	○	○	○	○
BLACK C7K - 200 Pigment Black 7			8	8	5	5	42 ± 3	1.25 ± 0.05	○	○	○	○	○	○
YELLOW OXIDE - L Pigment Yellow 42			8	8	5	5	61 ± 3	1.77 ± 0.05	○	○	○	○	○	○
YELLOW OXIDE Pigment Yellow 42			8	8	5	5	66 ± 3	2.01 ± 0.05	○	○	○	○	○	○
RED OXIDE Pigment Red 101			8	8	5	5	71 ± 3	2.28 ± 0.05	○	○	○	○	○	○

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C.I. NAME	OCTATONE For W/B Flexo/ Gravure Inks	OCTASPERSE For Soaps & Detergents	OCTADOZE For Rayon Dope Dyeing
Pig Yellow 1 		YELLOW BHR • YELLOW CAN YELLOW FGRS	YELLOW BGR YELLOW FGC
Pig Yellow 3 			YELLOW LGY
Pig Yellow 12 	YELLOW FRT		
Pig Yellow 13 	YELLOW FRB		
Pig Yellow 14 			YELLOW GN YELLOW GGN
Pig Yellow 74 			YELLOW FGYD
Pig Yellow 83 			YELLOW 2RR
Pig Orange 13 	ORANGE FIGG		ORANGE PGB YELLOW M5T
Pig Orange 34 	ORANGE FRL		
Pig Red 2 	RED FIGC WARM RED A3R		RED FRKD RED FBN
Pig Red 5 		RED DMA	RED FCB CARMINE FCR
Pig Red 31 	RUBINE RED J3R		RED VIOLET FBR
Pig Red 12 			BORDUAX FRB
Pig Red 53:1 	RED FGA		
Pig Red 57:1 	RED FGB		
Pig Red 254 		RED FBGG	
Pig Red 169 	RMODAMINE RED B2R		
Pig Red 122 	PINK FBB		
Pig Red170 			RED RGC RED RRS
Pig Violet 3 	VIOLET FBB		
Pig Violet 19 	RED FRT		
Pig Violet 23 	VIOLET FRL • VIOLET FIRR VIOLET FIRM		VIOLET FRR
Pig Violet 27 	VIOLET M4P		
Pig Blue 15 		BLUE FBGS BLUE ASM	BLUE FDBB BLUE FRR BLUE BRC
Pig Blue 15:3 	BLUE FIBB BLUE FLV		BLUE DBG BLUE FGR
Pig Green 7 	GREEN FIYY GREEN FLV	GREEN GMB	GREEN FDYY
Pig Black 7 	BLACK FIRK		BLACK FRK

Not Just Colors  
**Add Better Quality to Products**



**ICHOSALT® & ICHOLOGEN®**  
 Fast salt and ingrain dyes for textile industrial applications



**ICHOFIX® & ICHOZOL®**  
 Reactive dyes for textile industrial application



**OCTAMINE®**  
 Pigment preparation for textile dyeing and printing



**ICHOFLEX® & OEKOSOL®**  
 Specialized plastisol & water based textile inks



**OCTA®TONE™, OCTAFINE®, OCTA® DOZE™,  
 OCTA®PRENE, OCTA®SPERSE & OCTA®POL™**  
 Pigment preparation for water based Flexographic / Gravure inks,  
 Paints, Rayon dope dyeing, Latex, Soaps and Detergents



**ICHOPRINT®, ICHO® PLAST & ICHOLACE®**  
 Specialized organic pigment for printing Inks,  
 Plastics, Rubbers, Paints, Coatings and Allied Products



**INDIAN CHEMICAL INDUSTRIES**

The Pigment & Dyestuff Company

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