



ARIHANT
METALLICA

**PAINT DRIERS | PVC STABILISERS | ACCELERATOR FOR FRP
CATALYST | RUBBER ADHESION PROMOTERS
LUBRICANT & FUEL ADDITIVE**

www.arihantmetallica.com



Arihant Metallica is strategically situated in Tarapur, a prominent industrial hub in Maharashtra, known for its vast resources and advanced infrastructure. Our company is privately owned, operated exclusively by dedicated family members.

As a rapidly emerging player in the industry, Arihant Metallica specializes in the production of Paint Driers, Liquid PVC Stabilizers, and Accelerators for FRP. With a rich history spanning 28 years, since our establishment in 1994, we have been catering to diverse sectors such as Paint, FRP, Foundry, PVC, and Paper, among others.

In addition to our extensive range of standardized products, honed through years of expertise, we possess the capability to tailor custom formulations to address the unique requirements of our clients. Our extensive distribution network, managed by dedicated agents, ensures the seamless delivery of our products throughout India.

At Arihant Metallica, our unwavering commitment lies in offering high-performance products coupled with top-tier services at a competitive cost, rendering us the prudent choice for your needs.

Our footprint extends across the length and breadth of India, encompassing states like Maharashtra, Gujarat, Rajasthan, Madhya Pradesh, Chhattisgarh, Haryana, Punjab, Himachal Pradesh, Jammu & Kashmir, Karnataka, Tamil Nadu, Andhra Pradesh, West Bengal, and Kerala.

Furthermore, our global presence spans across countries such as Australia, Bangladesh, Egypt, Ethiopia, Iran, Iraq, Israel, Jordan, Kuwait, Latin America, the Middle East, Nepal, Nigeria, Saudi Arabia, South Africa, Vietnam, Malaysia, Indonesia, Venezuela, the Dominican Republic, Guatemala, El Salvador, Russia, Iraq, Peru, Colombia, and more.

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AN ISO 9001:2015 CERTIFIED COMPANY



ARIHANT METALICA



OUR MISSION

To provide integral products and exceptional service to the Paint & Chemical industry while sustaining a stable and consistent reputation through innovation. We do this in a safe and healthy work environment for our employees and adhere to all local, national and international regulations.



OUR VISION

Through adaptive improvement, we will continue to be a leader in the manufacturing of Paint Driers & Chemicals for many other industries. We will increase our product portfolio for Paint & Other industries through our innovations, hard work and responsible care initiatives.



CORE VALUE

- ACCOUNTABILITY
- TRUSTWORTHY
- INNOVATIONS
- TEAMWORK
- PROFITABLE
- ETHICAL & MORAL



WE ALSO DEAL IN

MULTIPURPOSE ADDITIVES FOR SOLVENT & WATER BASED PAINTS



Additive SP 2: A multi functional additive designed for **water addition** in Alkyd based Enamel Paint/CSNL based primer etc. Additional advantages: Substantially improves pigment strength, and thus hiding power of various enamels, including those using Non- polar Pigments such as CARBON BLACK.

In Enamels & Primers it improves properties like drying, leveling, dripping, coverage. Improves dispersions of pigments & adhesion on difficult surfaces.

Additive SP 3: It is complex of organic titanates, which can be used as structuring agent to achieve a wide range of structures and rheological characteristics in aqueous emulsion paints. This additive can directly be added to finished paint to obtain a shear reversible structure without the need to reformulate.

It is used in **latex paints** for true rheological behavior like non-dripping, high scrub and water resistance, eliminate brush marks, improves pigment dispersion & coverage by almost 10%, improves pigments strength, leveling, hard film and very strong adhesion to the concrete surfaces.

Additive SP700: It is a high performance organic - inorganic Complex compound (based on titanate technology) which is used as wetting and dispersing agent for water based coatings, offers efficient reduction in viscosity, reduces grinding time by 30 to 50%, increases pigment power by 10 to 30%, TiO_2 to be replaced by 30 to 50% clay, without affecting gloss. Improves adhesion, wetting and anti settling properties.

Additive 400: It is organic inorganic complex increases power of Pigment, reduces grinding time, improves adhesion & dispersion of pigments. Extenders can be used for all kinds of solvent-based paints.

Additive 610: A single binder for formulating heat resistant coatings from 200 to 1000 degree, curing at low temperature, touch dry within minutes, single pack. high scratch resistant, strong adhesion to substrate high mek rub, salt spray test.

Additive SPCA11: It is used for all kinds of paints & Ink. It is a very strong adhesion promoter & low odor, low color-dispersing agent. Improves heat stability & chemical resistance. It increases curing rate being a cross-linking agent.

Acts as powerful dispersing agent reduces viscosity, it can load more pigments, fillers in epoxy coatings.

RHEOLOGICAL ADDITIVES & PIGMENTS

HEC	Middle Chrome	Alfa Blue	Red Pigment
MHEC	Lemon Chrome	Beta Blue	Yellow Pigment
CMC	Scarlet Chrome	Prussian Blue	Chromo Cyanine Green

FOR FRP INDUSTRIES

- Unsaturated Polyester Resin
 - All types of grades like GP, RL, LV, ISO Pthalic, Vinyl Ester etc.
 - Resins for special applications (Imported)
- Methyl Ethyl Ketone Peroxide (Hardner) • Pigment Paste (Shades as per requirement)
- Fibre Mat • Fumed Silica • TBPB, BPO Paste



ARIHANT Metallica manufactures wide variety of metal carboxylates from various metals or metal salts, using synthetic fatty acids in variety of solvents as per customer's need.

Metal carboxylates are used in vast applications mentioned as follows.

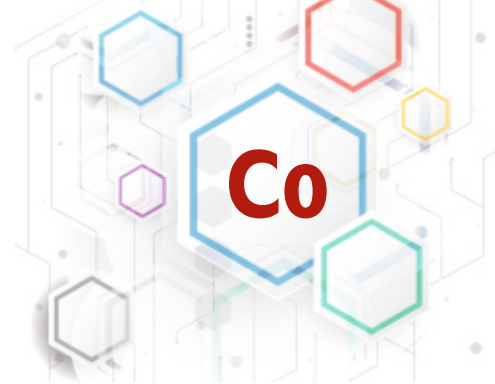
- Driers for
 - Solvent based coatings
 - Water based paints
 - Printing Inks
- Accelerators for UPR / FRP System
- PVC Stabilizers
- Catalyst
- Rubber Adhesion Promoters.
- Lubricant & Fuel Additives.

Metal Carboxylates used in Alkyd Resin Systems can be categorized as follows.

- **Surface / Primary Driers**
Oxidation Catalysts that helps coatings to dry on the surface.
Cobalt, Manganese & Iron carboxylates acts as Surface Driers.
- **Through Driers**
Oxidation Catalysts that helps coatings to uniformly dry throughout the coating systems. **Lead, Strontium, Zirconium, lithium** carboxylates acts as Through Driers.
- **Auxiliary / Secondary Driers**
These are not Oxidation Catalyst of its own but play a very vital role to the action of other Catalyst when used in conjunction with them.
Calcium, Zinc, Barium carboxylates acts as auxiliary Driers.



Cobalt Octoate



Properties

Cobalt Octoate is an extremely active & most widely used drier in coatings & capable of being used even as a single Drier. It is primarily an oxidation catalyst & acts as a "Surface Drier". It may have a tendency to cause surface wrinkling, hence to provide uniform drying, it is generally used in combination with other auxiliary driers. It is generally added at 0.05 to 0.5% depending on the vehicle solids. Cobalt drier prevents atmospheric humidity to enter into paint films due to its unique property. This will help to increase gloss & reduces brittleness of the film. This drier is a universal drier, which is essential in all media.

As quantity of Cobalt Drier used is very small, it minimizes discoloration in paints & enamels as compared with other Driers. Cobalt does not discolor white paints as the deep blue color of the cobalt counteracts the yellow of the oils & resins & thereby enhances the whiteness of the paint. Cobalt is an effective accelerator for catalytic action of MEKP to polymerize unsaturated polyester resin.

Applications

- Drier for Solvent & Water borne Coatings
- Drier for Printing Ink
- As rubber adhesion promoters in solid phase.
- Accelerator for UPR system

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Cobalt Octoate (CAS 13-52-7)	Bluish Violet	12	60	1.020	21
2			10	52	0.97	13
3			8	38	0.93	12
4			6	32	0.88	12
5			3	15	0.82	11



Manganese Octoate

Properties

Manganese driers are intermediate in activity & they have both oxidizing & polymerizing properties & hence can be used as surface & through drier. It is used alone in backing finishes & along with Cobalt & Lead in air drying applications. When used in combination with Lead, hard tough & durable films are produced. It is mainly used for exterior paints, floor finishes, backing enamels, foundry chemicals etc. the dosage of Cobalt Octoate can be minimized by using Manganese Octoate as it is capable of replacing Cobalt because of its high activity.

One disadvantage in use of manganese driers is their relative dark color, which has a tendency to discolor white or light finishes.

Manganese gives good results in low temperature drying & in high humidity conditions.

Applications

- Drier for Solvent & Water borne Coatings
- Drier for Printing Ink
- As bonding agent in Foundry chemicals.

Packing

Mild Steel / HDPE Drums of 185 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Maganese Octoate (CAS 13434-24-7)	Raddish Brown	12	73	1.05	Max 150
2			10	68	1.00	Max 100
3			8	50	0.93	20
4			6	37	0.89	12



Iron Octoate



Properties

Iron Octoate is used in backing finishes, since it promotes rapid drying by polymerization. When used in air drying system it improves through drying. It is an excellent wetting agent for carbon black & iron oxide. It prevents adsorption of driers on the surface of the pigments & increases gloss. In air-dry finishes it is useful in eliminating film tackiness of paints containing a high percentage of non-drying oil component such as fish oil. It can be used as an adhesion promoter in the anti corrosion coatings & as a replacement of Lead in Aluminium Paints.

Applications

- Drier for Solvent
- Drier for Baking systems

Packing

Mild Steel / HDPE Drums of 200 Kgs & 25 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Iron Octoate	Radish Brown	10	70	1.030	OPEN
2			6	40	0.910	14





Pb

Lead Octoate

Properties

Lead is a through drier & is always used as active or top drier. It promotes hard & through drying throughout the film & also increases flexibility, toughness & durability of the film. Lead drier can give rise to precipitation in the film as, Lead Octoate reacts with unreacted phthalic anhydride of alkyd resin, which could form Lead Phthalate, which may cause haziness & loss of gloss. In order to avoid this it is advisable to add Calcium Octoate first which acts as emulsifier & improves the pigment dispersing & wetting properties. In exterior paints & floor finishes Lead is used along with Manganese to produce tough & hard film. It is also used in Polyurethane finishes as auxiliary drier. Lead drier improves the drying time of double boiled linseed oil. Lead Octoate also improves the water & salt resistance of the film making it useful to rust preventive coating.

Lead in combination with cobalt & calcium are suggested, particularly for long oil alkyds lead is the most important drier. However some of the problems connected with lead driers such as sulfur staining & reaction with polybasic acids are overcome by inclusion of calcium drier. As lead is toxic in nature its usage toys & edible film packaging is to be avoided. The most widely used metal that could replace lead driers are Zirconium & Strontium.

Applications

- Drier for Solvent in combination with Cobalt, Calcium & Manganese
- Drier for Printing Ink
- As bonding agent in Foundry chemicals.

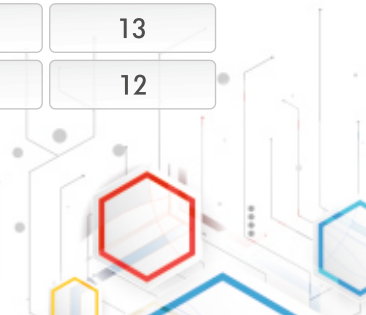
Packing

Mild Steel / HDPE Drums of 205 / 220 / 250 Kgs & 25 / 30 / 50 / 60 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Lead Octoate (CAS 301-08-6)	Pale Yellow	36	70	1.35	30
2			32	62	1.23	20
3			24	46	1.08	13
4			18	32	0.98	12



Zirconium Octoate



Properties

Zirconium is a most useful & efficient auxiliary drier. Zirconium like lead serves as a through drier & is generally used in combination with Cobalt, Manganese & Calcium. Unlike Lead, Zirconium is a poor pigment wetting & dispersing agent, hence combination with calcium is necessary.

Zirconium is an active cross-linking agent & as such improves hardness of stoved films as well as their adhesions

Zirconium is not as effective in phenolic resin based media it is recommended as a catalyst for epoxy esters. Use of Lead driers in combination with Zirconium is to be avoided totally. Also Zirconium tends to yellowing & its performance under critical conditions like lower temperature.

Applications

- Drier for Solvent & Water borne Coatings
- Drier for Lead free applications

Packing

Mild Steel / HDPE Drums of 180 / 200 / 225 / 250 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Zirconium Octoate (CAS 22464-99-9)	Trace Yellow	24	75	1.22	Min 100
2			18	54	1.030	20
3			12	36	0.950	13
4			6	18	0.850	11





Strontium Octoate

Properties

Strontium Octoate is replacement of Lead Octoate, where Lead free Paint/Ink is required. It improves through drying in adverse effect like high humidity & low temperatures. Strontium seems to overcome the insufficient Zirconium performance. Also unlike Zirconium, Strontium avoids yellowing. Strontium is also a good pigment wetting & dispersing agent preventing haze & wrinkling.

Applications

- Drier for Solvent as lead replacement
- Drier for high solid systems

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Strontium Octoate (CAS 2457-02-5)	Radish Brown	10	63	0.98	19
			6	32	0.89	13



Calcium Octoate



Properties

Calcium being an auxiliary drier, has little drying action in itself but is very useful in combination with active driers like Cobalt & Lead Octoate.

In vehicles that show poor tolerance for lead, calcium can replace part of the lead with a larger amount of calcium to prevent the precipitation of the lead & maintain drying efficiency. Calcium is often used to replace lead where toxicity of lead must be avoided. Calcium is also useful as pigment wetting & dispersing agents & help to improve hardness & gloss while reduce "Skinning". When ground with drier adsorbing pigments, calcium minimizes loss of dry by being preferentially absorbed.

Applications

- Drier for Solvent in combination with Cobalt, Calcium & Manganese
- Driers for Lead free systems along with Cobalt & Strontium.

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Calsium Octoate (CAS 27253-33-4)	Pale Yellow	10	50	0.98	14
2			5	50	0.90	50 Min
3			3	30	0.84	12





Zn

Zinc Octoate

Properties

Zinc being an auxiliary drier, used in conjunction with redox metals. The primary function of zinc is to keep the film "Open" by retarding Surface dry, thus permitting hardening through out & preventing surface wrinkling, particularly in Cobalt containing films & enamels.

Zinc is a powerful wetting & dispersing agent, & when incorporated early in formulation, it greatly reduces the time of mixing & grinding. Because of the extremely light colour, Zinc can be added without discoloring the film.

Applications

- Drier for Solvent & Water borne Coatings
- As loss of Dry Agent

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Zinc Octoate (CAS 85203-82-23)	Trace Yellow	22	94	1.130	150 Sec Max
2			18	70	1.06	50 Sec Max
3			16	66	1.02	15
4			12	50	0.93	12
5			6	25	0.83	11



Barium Octoate



Properties

Barium can be used in place of lead and calcium. It does not give haze like lead in alkyds. It is mainly used in P.V.C. as heat and light stabilizer with cadmium.

Applications

- Liquid P.V.C. Stabilizer

Packing

Mild Steel / HDPE Drums of 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Cadmium Octoate



Properties

Cadmium is used in P.V.C. Stabilizer with barium.

Applications

- Liquid P.V.C. Stabilizer

Packing

Mild Steel / HDPE Drums of 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Barium Octoate	Yellow	12	51	0.940	20
2	Cadmium Octoate	Dark Yellow	15.5	55	1.020	30



Copper Octoate

Properties

Copper is an anti fouling agent. It is used in ship bottoms paints. Copper Octoate Hydrolyses gradually in to Copper Hydroxide & Octoic Acid in the presence of seawater, Copper Hydroxide is an active toxicant.

It is used as a rot proofing agent in textiles, cordage etc. & to prevent dry rot & mildew growth in timber. Its insecticidal property is taken advantage of to impart a long lasting protection against termites, beetle & ambrosia & many other insects attacking timber/lumber, Copper may be applied on textile fabrics by dipping, spraying or impregnation. The recommended dosage is 2% to 2.5% as metal.

Applications

- Drier for Solvent borne Coatings
- As fungicide & termite resistant

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Copper Napthanate (CAS 92200-89-7)	Dark Green	10	63	0.99	23
2			8.5	54	0.95	14
3		Green	8	51	0.94	13
4			6	35	0.88	12



Potassium Octoate



Properties

Miscible with organic solvents and oils. Suitable to use with other siccatives. Used for Polyester and Isocyanurate foam initiator. Potassium Octoate is used in conjunction with Cobalt for a synergistic effect and to reduce discoloration of the final Gel-Coat. Potassium may offer cost savings as well as a decline in gel-time drift.

Applications

- Catalyst for UPR / FRP

Packing

Mild Steel / HDPE Drums of 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Potassium Octoate	Pale Brown	15	80	1.080	OPEN
			10	60	1.020	OPEN





Cerium Octoate

Properties

Cerium (Rare earth) is a primary drier, promotes polymerization and imparts through drying property. In alkyd based varnishes Cerium is more active as compared to lead. In contrast with lead driers, Cerium does not cause turbidity in oils and alkyd based varnishes.

It has a synergistic effect when used in combination with Cobalt resulting in the need for using a lower percentage of Cobalt and thereby offering an economy. In air-drying white colourless or clear or pastel shades care must be taken to predetermine the quantity required to obtain satisfactory drying in order to avoid yellowing. As a replacement to lead, Cerium finds use in lead-free composition and where sulphur-containing pigments are used. It also resists atmospheric hydrogen sulphide stain.

Applications

- Drier for Solvent as lead replacement
- Drier for Printing Ink

Packing

Mild Steel / HDPE Drums of 180 / 200 Kgs & 22 / 25 / 45 / 50 Kgs

Storage Parameters

Twelve Months in original container at Ambient Temperature.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Cerium Octoate	Dark Brown	12	62	0.980	Min 100
2			10	52	0.950	41
3		Pale Brown	8	34	0.900	29
4			6	29	0.870	15



Nickel Octoate



Applications

- Used as a catalyst in rubber manufacturing
- Used as catalyst in top-grade printing ink
- Available for coating grinding dispersant, ultraviolet light absorbent, etc.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Nickle Octoate CAS 4995-91-9)	Green	12	72	1.040	33
2			10	61	0.99	16
3			8	48	0.94	13
4			6	35	0.89	12





Lithium Octoate

Properties

Lithium octoate is a multifunctional drier Which boost the performance of other driers especially when used in conjunction with cobalt and manganese. It not only works as a through drier especially in high solid coating but also act as wetting and Dispersing agent, as well as being a loss of dry inhibitor when used along with calcium. Lithium Octoate 2% is Lithium based catalyst, specially designed for use in air-drying paints as well as for waterborne alkyd resin based paints and varnishes. Li 2 is used in conjunction with Cobalt based driers such as Co 10 and promotes through drying and hardness.

Sr.	Products	Colour	Metal Content % (± 0.2)	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
1	Lithium Octoate	Reddish Brown	2	78	0.98	OPEN

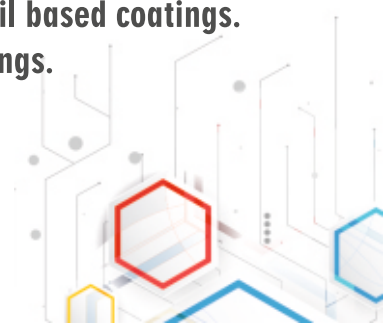


SPECIFICATIONS OF COMBINATION DRIERS

Products	Metal	Colour	Non Volatile at 120°C / Hr (± 5)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
AM 025 (Enamel Paint)	Co 1.5%, Mn 1.5%, Pb 17.5%	Purple	50	1.050	18
AM 028 (For INK)	Co 2.6%, Mn 2.0%, Pb 8%	Brown	39	0.94	13
AM 068 (Primer)	Co 0.6%, Mn 1.8%, Pb 10.8%	Brown	35	0.94	13
AM 1425 (Primer)	Co 0.45%, Mn 2.15%, Pb 14%	Brown	43	0.98	15
AM 0725 (Primer)	Co 0.25%, Mn 2.5%, Pb 17.5%	Brown	52	1.04	18
AM 121	Co 1.2%, Pb 11.01%, Ca 2.17%	Blue / Violet	40	0.97	15
AM 023 (White Enamel Paint)	Co 1.00%, Ca 2.0%, Zr 2.0%	Blue / Violet	30	0.86	12
AM 031	Co 1.66%, Zn 4.66%	Blue / Violet	26	0.87	14
AM 045	Co 4.5%, Ba 4.5%	Blue / Violet	37	0.90	14
AM UNIVERSL	1011	Blue / Violet	57	0.97	OPEN
AM09	-	Blue / Violet	38	0.89	14
AM321	-	Blue / Violet	40	0.900	30
AMPB-36	-	Blue / Violet	38	0.890	14

OUR INNOVATIONS

- Replacements of less Toxic driers over Toxic driers like Lead Octoate & Zirconium Octoate.
- Universal Combination Drier that can be used in all oxidative air drying & oil based coatings.
 - Water-based driers for water borne oxidative air-drying coatings.



Cobalt Octoate (FRP Grade)



In FRP Grade, Cobalt Octoate is combination of two metals. Combined % of two metal is active metal present in Cobalt Octoate.

These compounds are promoters used in the curing of polyester and vinyl ester resins with methyl ethyl ketone peroxide (MEKP) type catalysts. Promoters are also called accelerators. They can be added to the resin by the supplier, in which case the resin is said to be pre-promoted. Alternatively, the manufacturer prior to adding catalyst to the resin can add promoters.

The purpose of cobalt-based promoters is to speed up the curing reaction of polyester and vinyl ester resins and allow them to cure at room temperature. The cobalt-based promoter helps the catalyst to start the chemical reaction between the resin and styrene monomer and form a cured solid.

Other types of promoters are available, including Di Methyl Aniline (DMA). A combination of DMA and cobalt promoters can be used in conjunction with MEKP to give fast cure of polyester resins.

The exact amount of promoter added to the resin will depend on the resin used, the temperature in the workshop and the gel time desired. Usually 0.1 to 1% (based on the mass of resin) of cobalt 6 ACLR type promoters is added. Promoters must never be mixed directly with catalyst since a violent explosive reaction results. This is why it is important to ensure all promoters are thoroughly mixed with the resin before adding the catalyst. We also provide clear cast grade (CC) of Cobalt Octoate for FRP, which generally known as colorless cobalt, used where transparent cast is required.

SPECIFICATION FOR COBALT OCTOATE ACLR (For Unsaturated Polyester Resin)				
Products	Active Metal	% of Solid @ 1200°C / Hr (± 3)	Specific Gravity at 30°C (± 0.03)	Viscosity at 30°C F.C. B-4 (Sec) (± 3)
ACLR 2	3.33	15	0.880	12
ACLR 3	5	22	0.900	12
ACLR 6	10	43	0.960	20
ACLR 10	10	59	1.010	25
ACLR 12	12	65	MIN. 1.010	MIN.45
ACLR 10CC	11.2	67	1.040	40
ACLR CC	9.8	58	1.010	30





Arioxime (Antiskinning Agent) Methyle Ethyl Ketoxime

ARIOXIME Methyl Ethyl Ketoxime (MEKO) is clear liquid, which is used in a variety of application. It is used for its properties as an oxidant, metal complexing agent, and versatile blocking group and it prevents skinning in alkyd-based systems.

Chemical Properties:

Thermal Decomposition: Do not expose to high temperatures. Thermal decomposition produces methyl ethyl ketones, substituted amides and possibly other material. Combustion is expected to produce at least carbon monoxide, carbon dioxide, and oxides of nitrogen. Not compatible with strong acid, oxidant and alkalies.

Product Safety Information:

All personnel handling and/or using MEKO must be familiar with appropriate safety and handling precaution. Before handling always read and follow the safety precaution in Material Safety Data Sheet. MEKO is harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes and clothing. Do not breath vapors. Exposure to liquid and vapors can be irritating to the skin and respiratory track. Eye irritation can be severe and can result it burns.

In case of contact, immediately flush the affected area with large quantities of water for at least 15 minutes. Removed contaminated clothing and launder thoroughly before use. Get medical attention for irritation and other symptoms.

MEKO is flammable liquid. When handling MEKO keep away from heat and open flame. Do not expose to acid and oxidizers. Wear recommended personal protective equipment including impervious clothing and gloves constructed of butyl rubber, neoprene or nitrile when handling liquids.

Packing

MEKO is available in 25Kgs. H.D.P.E. carboys or 190 Kgs MS Drums

Storage Parameters

MEKO store in cool, dry well ventilated area suitable for flammable liquid. Keep away from strong acid and oxidizers. Protect containers from physical damage. Keep upright and tightly closed. Do not reuse drums.

Physical Properties		Specification	
Molecular weight	87	$\text{CH}_3\text{CNOHC}_2\text{H}_5$	Assay 99.0% Min.
Chemical Name	2-Butanone Oxime	Methyl Ethyl Ketone	0.50% Max
Specific Gravity	0.92 g/mi	Sec-Butyl Alcohol	0.50% Max
Boiling Point	152°C	Water	0.25% Max
Melting Point	29.5°C	Color, APHA	8 Max
pH	7.0 – 8.5	Appearance	Clear liquid
Solubility in water	Moderate (10%)		
Vapor Pressure	About 2mm Hg @ 20°C		



Calculation for Drier Dosage

Weight of Drier required = $\frac{\text{Weight of Solid Resin} \times \% \text{ of Metal required}}{\% \text{ Metal in Drier}}$

Drier Related Troubleshooting

PAINT FILM DEFECT	REMEDIE
Dries too slowly	Increase drier's Dosage
Slow drying at low-temperature	Replace Calcium Drier with Barium or Strontium Drier
Poor drying in high humidity	Replace Calcium Drier with Ba
Slow surface dry	Increase Primary Drier (Co, Mn, Fe Octoate)
Poor through dry	Replace Calcium Drier with Ba
Film is too brittle	Reduce Cobalt OR Replace it with Manganese Octoate / Increase Zirconium Octoate
Film too tacky	Increase Primary driers
Wrinkling	Decrease Cobalt Octoate OR Add Zinc Octoate
Low gloss & Poor color retention	Add Zinc Octoate
Yellowing	Replace Manganese with Cobalt Octoate
Blooming	Increase Calcium Octoate
In can skinning	Decrease Primary Driers / Add Anti-skinning agent (MEKO)
Poor pigment dispersion	Incorporate Zinc or neutral Calcium Octoate during the grind stage

Loss of Dry:

Coatings with high surface area pigments

Increase neutral Calcium Octoate



OUR GLOBAL PRESENCE



OUR LOCAL PRESENCE

Maharashtra, Gujarat, Rajasthan, Madhya Pradesh, Chhattisgarh, Haryana, Punjab, Karnataka, Himachal Pradesh, Jammu & Kashmir, Tamil Nadu, Andhra Pradesh, West Bengal & Kerala.

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