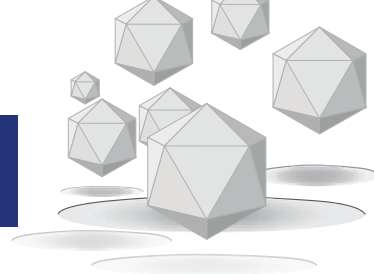


**Driers, Accelerators & Catalysts for
Coatings, Inks, Composite & Urethane
Industries**



www.egekimya.com

ABOUT US



- Founded in 1955, EGE KIMYA is one of the precursors of the Turkish Chemical Industry.
- A family business involved in the production of intermediate chemicals for a variety of applications.
- Headquartered in Istanbul-Turkey.
- Adapazari plant, 130km east of Istanbul, is comparable to a small scale industrial zone with 120K sq meters of land, it serves various sectors with its production, design and research capabilities.
- EGE KIMYA received its ISO 9001, ISO 14001 and ISO 27001 certification and is a signatory member of the European Chemical Industry Council (CEFIC) Responsible Care Program.
- EGE KIMYA is the market leader in more than 10 developing sectors with a technical team of researchers with academic degrees including Ph.D. managed by senior executives.
- Main supplier to global corporations that are market leaders in their fields, with long term agreements.
- With the services and technical support it offers, EGE KIMYA is one of the first choice of global corporations in the region.
- Current headcount: 500

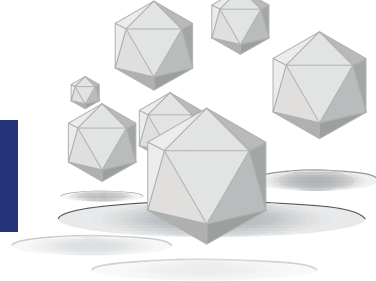
Product Range

Metal Carboxylates	Silicates	Zinc Oxide	Batch-off Soaps	Metal Salts
Paint Driers	Sodium	Powder	Powder	Solution
Accelerators	Potassium	Granulated	Liquid	Crystal
Catalysts	Lithium			
Rubber Adhesion Promoters				

International Collaborations of EGE KIMYA

Joint-Venture with EVONIK for the production of precipitated silica and aluminium silicate.	Co-Production with ALBEMARLE for the production of catalyst bases.	Licence agreement with EUCLID CHEMICAL on construction chemicals.
		
		EUCLID CHEMICAL

DRIERS



EGEDry® Polymeric Series

EGE KIMYA's innovative solution to current "cobalt octoate" problem in oxidatively air-drying paint sector is **EGEDry® Prime**. It is not literally cobalt-free, nevertheless, it offers **label-free** solution as polymers are out of REACH classification. Additionally, the formulating a cobalt carboxylate in the polymeric form resulted in a low toxic product with the exact performance level as of cobalt octoate. EGEDry® Prime is now fully commercialized and approved by various multinational companies.

EGEDry® Prime LV Pro is the next generation of EGE KIMYA's urethanised cobalt bearing polymer technology. Utilising our wealth of expertise and knowledge the product has the highest metal content (6%) and lowest viscosity compared to similar technologies in the market. Advantages are easier incorporation into paint and ink media, improved toxicological profile and drying performance which is equal or better in comparison with actual products on the market. The following series of products offer alternatives to cobalt carboxylates and can be used in all type of oxidatively air-drying, solvent and water based oil-modified coatings.

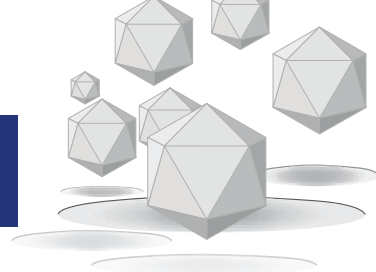
EGEDry® Polymanganese is a solution for replacement of standard Manganese Octoate. It is not literally manganese-free, nevertheless, it offers label-free solution as polymers are out of REACH classification. Additionally, the formulating a manganese carboxylate in the polymeric form resulted in a low toxic product with the exact performance level as of manganese octoate.

Product	Concentration (%)	Chemistry	Solvent Type
EGEDry® Prime LV Pro	6	Cobalt Based Urethane Polymer	DPM
EGEDry® Prime WB	3	Cobalt Based Urethane Polymer	Hexylene Glycol
EGEDry® Prime	4	Cobalt Based Urethane Polymer	Hexylene Glycol
EGEDry® Polymanganese	4	Manganese Based Urethane Polymer	Hexylene Glycol

Key Features



DRIERS



EGEDry® Octoate Series

Product	Concentration (%)	Solvent Type
EGEDry® Cobalt	12, 10, 6	WS, D60
EGEDry® Cobalt	10	Fatty Acid Ester
EGEDry® Manganese	10, 6	WS, D60
EGEDry® 511	1	Solvent Blend
EGEDry® Manganese HS	8	Fatty Acid Ester
EGEDry® Iron	10, 6	WS, D60
EGEDry® Zirconium	24, 18, 12	WS, D60
EGEDry® Lead	36, 24	WS, D60
EGEDry® Strontium Basic (Overbased)	24, 18	WS, D60
EGEDry® Strontium Neutral	12, 10	WS, D60
EGEDry® Calcium Neutral	5	WS, D60
EGEDry® Calcium Basic (Overbased)	10	WS, D60
EGEDry® Barium	12.5	WS, D60
EGEDry® Zinc	16, 12	WS, D60

EGEDry® Neodecanoate Series

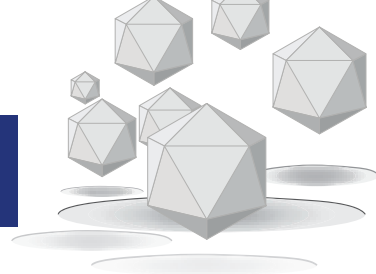
Product	Concentration (%)	Solvent Type
EGEDry® Cobalt	12, 10	D60
EGEDry® Manganese	10, 8, 6	D60
EGEDry® Zirconium	18, 12	D60
EGEDry® Zinc	16, 12	D60
EGEDry® Calcium Basic (Overbased)	10, 5	D60
EGEDry® Calcium Neutral	5	D60
EGEDry® Strontium Basic (Overbased)	24, 18	D60
EGEDry® Strontium Neutral	12, 10	D60
EGEDry® Barium	12.5	D60
EGEDry® Lithium	2	D60
EGEDry® Bismuth	16	D60

EGEDry® Mixed Driers

Product	Concentration (%)	Chemistry	Solvent Type
EGEDry® Mix 00901	10	Cobalt, Calcium, Strontium	WS, D60
EGEDry® Mix 06001	15	Cobalt, Zirconium	WS, D60
EGEDry® Mix 01201	10.2	Cobalt, Calcium, Zirconium	WS, D60
EGEDry® Mix 00801	8.8	Cobalt, Calcium, Zirconium	WS, D60
EGEDry® Mix 01031	13	Cobalt, Lead, Calcium	WS, D60
EGEDry® Mix 01501	6	Cobalt, Calcium, Zinc	WS, D60
EGEDry® Mix 01101	8	Cobalt, Calcium, Zinc, Lithium	WS, D60
EGEDry® Mix 03801	6	Cobalt, Calcium, Lithium	WS, D60



DRIERS



EGEDry® Water-based Driers

Product	Concentration (%)	Chemistry	Solvent Type
EGEDry® Cobalt Neo 5 WB	5	Neodecanoate	D60
EGEDry® Zirconium Neo 12 WB	12	Neodecanoate	D60

EGEDry® Special Drier Series

EGEDry® Copper carboxylates are rather not to be used as driers but as a fungicide in wood impregnation applications.

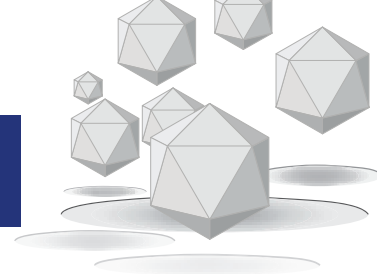
EGEDry® Lithium carboxylates are multifunctional driers which boost the performance of other driers especially when used in conjunction with cobalt and manganese. It's not only works as a through drier especially in high solid coatings but also act as wetting and dispersing agent, as well as being a loss of dry inhibitor when used along with calcium. It is a drier additive as far as low temperature condition is concerned.

EGEDry® Bismuth carboxylates are through driers and can be used to replace zirconium in paint applications where high humidity conditions predominates. It can also be employed in 2K polyurethane coatings applications to replace tin and mercury-based catalysts.

Product	Concentration (%)	Chemistry	Solvent Type
EGEDry® Copper	8, 6	Neodecanoate	WS, D60
EGEDry® Lithium	2	Neodecanoate	WS, D60
EGEDry® Bismuth	24	Octoate	D60



ACCELERATORS



EGECat® Prime LV Pro

EGEDry® Prime LV Pro is the most concentrated polymeric cobalt complex on the market.

EGEDry® Prime LV Pro offers:

- 6% Cobalt
- Lowest viscosity in the polymer range
- Safe handling and usage
- Compatible in different unsaturated polyester resins
- REACH compliant
- At least comparable performance to standard cobalt carboxylate

EGECat® Cobalt (Co)

EGECat® Cobalt carboxylate promoters are used to accelerate the decomposition of peroxides at room temperature to crosslink unsaturated polyester resins (UPR). **EGECat® Cobalt 16311** is used as Gel-Time Drift suppressor.

Product	Concentration (%)	Chemistry	Solvent Type
EGECat® Cobalt	12, 10, 6	Octoate	WS, D60, Xylene
EGECat® Cobalt	12, 10	Neodecanoate	WS, D60
EGECat® Cobalt 16311	21	Neodecanoate	WS, D60
EGECat® Cobalt XB/XC	7*	Octoate	WS

***Total metal Content**

EGECat® ClearCo Series

Your trusted partner, **EGE KIMYA**, is committed to the continuous improvement and extension of our product range and are pleased to inform our customers of the newest development for the reduction in residual colour of cured unsaturated polyester resins;

Product	Concentration (%)	Chemistry	Solvent Type
EGECat® ClearCo 101	2	Cobalt Neodecanoate Complex	D60
EGECat® ClearCo 102	1	Cobalt Neodecanoate Complex	D60

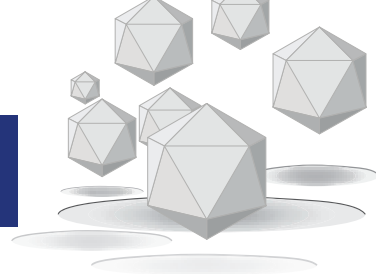
These products are also available in WS and Xylene.

EGECat® Co-Promoters

EGECat® Copper, EGE Cat® Potassium and EGE Cat® Sodium carboxylates serve as synergistic with cobalt promoters in unsaturated polyester resin curing. Potassium and Sodium are used to reduce the “pinkish” effect of cobalt whilst minimising the effect on the gel time, cure time and the peak exothermic temperature peak of the curing. Copper is used to regulate the peak exothermic temperature of the curing.

Product	Concentration (%)	Chemistry	Solvent Type
EGECat® Copper	8, 6	Neodecanoate	WS, D60
EGECat® Potassium	15, 13	Octoate - Acetate	DEG

CATALYSTS



EGECat® Polyurethane Series

EGE Kimya offers a range of metal-based catalysts to be used in polyurethane industry. These catalysts can be divided into two groups; first group that is used in PIR (Polyisocyanurate) applications and rest are developed to be used in CASE (Coatings, Adhesives, Sealants, Elastomers) applications, high density foam, spray applications, microcellular and rigid foams.

EGECat® E239 and EGE Cat® E2269 are potassium acetate and potassium octoate solutions in diethylene glycol. Having been known as isocyanate trimerization catalyst, both catalysts promote isocyanurate reaction and are used in a wide range of rigid foam applications.

EGECat® Bismuth Octoate, is the environmental friendly gelling catalyst which is used in polyurethane applications.

EGECat® Bismuth-S is a selective urethane gelling catalyst, which accelerate the reaction rate and cause rapid gelling. It can be used as a co-catalyst with a tertiary amine to accelerate the urethane reaction and presents a gradual increase of the viscosity (no induction period of low viscosity as mercury).

EGECat® Zinc-S is providing the optimal control of the drying properties, both during forced-drying and curing at room temperatures. It is a cross-linking catalyst which enables the modification of the final network, affords tack-free surface. It exhibits synergistic activity in catalyst mixtures as an alternative to DBTDL or directly mix with DBTDL to create improvement in solvent resistance and increases film hardness.

EGECat 8-S, is a combination of Bi/Zn carboxylates. It presents a good balance between efficient cross-linking, tack-free surface, less gas bubbles, fewer pin-holes higher gloss and longer pot life.

Product	Concentration (%)	Chemistry	Solvent Type
EGECat® E239	13	Acetate	DEG
EGECat® 2269	15,3	Octoate	DEG
EGECat® Bismuth	28	Octoate	Solvent-free
EGECat® Bismuth-S	16	Neodecanoate	Solvent-free
EGECat® Zinc-S	19	Neodecanoate	Solvent-free
EGECat® 8-S	16	Neodecanoate	Solvent-free



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