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## Description

Cobalt is the most important metal drier. It results in rapid surface drying and, in combination with a secondary drier such as zirconium, barium or lead, uniform through-drying of the paint film. It is frequently combined with manganese.

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## Supply form

Soligen<sup>®</sup> driers are based on metal salts of naphthenic acid (naphthenates).

**Soligen<sup>®</sup> Cobalt** is available in the following supply forms:

Products	Applications
Soligen <sup>®</sup> Cobalt 6	solvent-borne systems
Soligen <sup>®</sup> Cobalt 6 aqua	water-borne systems

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## Properties

**Soligen<sup>®</sup> Cobalt** catalyses redox reactions and even small additions result in the dissociation of autoxidant hydroperoxides up to a change in valency from  $\text{Co}^{2+}$  to  $\text{Co}^{3+}$ . **Soligen<sup>®</sup> Cobalt** thus results in rapid surface drying.

The addition of cobalt must be very accurate to prevent excessively rapid surface drying and resulting film defects (wrinkling, poor through-drying or yellowing). As a rule, the additions recommended by the binder manufacturer should be observed.

A combination of cobalt, zirconium and calcium has proved ideal as a lead-free mixed drier system.

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## Applications

**Soligen<sup>®</sup> Cobalt** is used in all oxidative systems. It is used in architectural paints, industrial coatings, varnishes, oil-based printing inks and artists' colors.

It can also be used as an accelerator in unsaturated polyester resins, resulting in a shorter gel time. Combination with *Borchers<sup>®</sup> S1* has also proved ideal for this purpose.

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## Addition

In our experience, the percentage addition of cobalt, calculated on the metal content per solid binder, is approx. 0.01 - 0.08 % Co.

The exact required amount depends on the binder used. The addition rate should always be determined in preliminary trials.



## Storage

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Protect from the effects of weathering and store at temperatures between 5 and 30 °C.  
Once opened, containers should be resealed immediately after each removal of the product.

## Safety

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Please refer to our safety data sheet for information relating to product safety.

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