

Borchers[®] Dry 0412 (oil)



Cobalt-free primary drier with particularly high drying activity for mineral oil-based printing ink systems

Description

Borchers[®] Dry 0412 (oil) is a new cobalt-free primary drier for use in mineral oil-based, oxidatively drying printing ink systems. The activity of the siccative metal is enhanced by its combination with an organic drying accelerator.

The product can be used as a surface drier either in clear coats or pigmented systems, where it replaces other primary driers, especially cobalt siccatives.

Characteristic data

Appearance:	clear, reddish brown solution	
Density (at 20°C), g/cm ³ :	0.97 – 1.01	DIN 51757 (A)
Flash point, °C:	> 100	
Solvent:	paraffinic mineral oil	
Solubility:	soluble in organic solvents such as white spirit, alcohols, glycols, printing ink oils immiscible with water	

Properties

Borchers[®] Dry 0412 (oil) provides rapid and even drying of the printing ink after application.

Inks siccated in this manner continue to exhibit very good drying behavior with no degradation of drying ability even after extended storage. Drying results are comparable to those obtained with cobalt-siccated systems.

Applications

Borchers[®] Dry 0412 (oil) is dissolved in high-boiling mineral oil. It was specifically developed for use in printing ink systems and is suitable for all oxidatively drying printing ink binders.

Due to the combination with an organic drying accelerator, **Borchers[®] Dry 0412 (oil)** exhibits an enhanced drying activity compared to common cobalt-free primary driers.

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Use and Dosage

Borchers® Dry 0412 (oil) can be added to the system as a finished preparation in any formulation step. Pre-thinning is not required. We recommend its addition after the dispersing process prior to adding an anti-skinning agent.

The dosage of **Borchers® Dry 0412 (oil)** depends on the type and quantity of the binder used. Usual amounts are approx. 0.1 – 0.5 % by weight based on solid binder. It is recommended to start at the low end and increase addition rates in order to find the optimal dose.

If necessary, **Borchers® Dry 0412 (oil)** can be combined with all other Octa-Soligen® driers. *Octa-Soligen® Strontium* or *Octa-Soligen® Zirconium* have proven effective for increasing film hardness and improving through-drying of the applied film. *Octa-Soligen® Calcium* can be used to improve storage stability and stabilize drying ability.

We recommend the combination with our phenol- and oxime-free antioxidant *Ascinin® Anti Skin VP 0443*. This can be incorporated into the ink, where it replaces the corresponding phenolic antioxidant, or applied instead of butanone oxime to the surface of printing inks in the container.

Storage

Protect from the effects of weather and store at temperatures between 5 and 30 °C.
Once opened, containers should be resealed immediately each time product is removed.

Safety

Appropriate protection clothing must be worn while working.
Please refer to our safety data sheet for additional information relating to safe handling and product safety.

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