

Borchers[®] VP 0132 (Trial Product)



Primary drier for solvent borne oxidatively drying coatings with enhanced drying activity

Description

Borchers[®] VP 0132 is a new primary drier based on an organically modified Vanadium compound. It is suitable either for clear-coats or for pigmented solvent borne oxidatively drying coating systems.

Borchers[®] VP 0132 should replace other established primary driers, especially cobalt siccatives.

Characteristic data

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|--------------------------------------|---|----------------------------------|
| Appearance: | blue to green solution of medium viscosity | |
| Metal content V, %: | 4.90 – 5.10 | Borchers 08-Va-01 |
| Density (20 °C), g/cm ³ : | 1.15 – 1.19 | DIN 51757 (A) |
| Flash point, °C: | > 61 | |
| Solvent: | glycol ether (boiling point > 240 °C) | |
| Non-volatile content, %: | 63 – 75 | ISO 3251 – 1974 (2g, 3h, 105 °C) |
| Viscosity (20 °C), mPa·s: | max. 1,000 (typical) | |
| Solubility: | miscible with common organic solvents, e.g. alcohols, xylene, acetone, propylene glycol, butyl acetate, methoxy propyl acetate; slightly miscible with water | |

Properties

Borchers[®] VP 0132 provides rapid surface dry and also good through-drying properties. The drying ability of coatings siccated with **Borchers[®] VP 0132** remains constant even after extended time of storage. The drying results are comparable to those obtained with cobalt siccated systems.

Applications

Borchers[®] VP 0132 is suitable for all solvent borne coatings as well as VOC-reduced and *high-solids* paints based on alkyd resins, epoxy esters and other oxidatively drying binders. The characteristics remain constant whether using clear coats or pigmented systems. The possibility to use **Borchers[®] VP 0132** in water-based paints has to be determined empirically.

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Use and Dosage

Borchers® VP 0132 can be added to the paint system in any formulation step. We recommend its addition after the dispersing process prior to adding an anti-skinning additive. A dilution with water or any organic solvent is not suggested.

The required amount of **Borchers® VP 0132** depends on type and quantity of the used binder. Usual amounts are approx. 0.02 to 0.06 % Vanadium by weight based on solid binder. It is recommended to adjust the quantity on the amount of substituted cobalt. Due to the higher drying activity of **Borchers® VP 0132** it is proposed to start with half the addition of substituted cobalt, related to the metal content. Usually a further optimization is necessary.

The additional application of *Octa-Soligen®* secondary driers may result in improved through-drying efficiency and reduced film yellowing due to synergistically effects. The through drying process can be improved particularly by adding *Octa-Soligen® Strontium*, *Octa-Soligen® Zinc* or *Octa-Soligen® Zirconium* driers. To improve yellowing resistance in white pigmented coatings we recommend the use of *Octa-Soligen® Strontium*.

Storage

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

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

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