

### PRELIMINARY PRODUCT INFORMATION

#### TYPE

Cobalt free primary drier based on twin accelerated Manganese

#### FORM OF DELIVERY (f.o.d.)

##### Metal content

approx. 1 % Manganese

### DEVELOPMENT PRODUCT

**This product is serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.**

### TENTATIVE PRODUCT DATA

#### Determined per batch:

##### Colour / Appearance VLN 250

colour		brown
appearance		clear to light cloudy

##### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	100 - 500
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##### Refractive Index DIN 53491

refractive index (20 °C)		1,4600 - 1,4800
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#### Not continually determined:

##### Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm <sup>3</sup> ]	0,99
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##### Flash Point DIN EN ISO 1523

flash point	[°C]	> 56
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### SPECIAL PROPERTIES

ADDITOL dry CF100 is a ready to use universal Cobalt replacement drier designed to have excellent compatibility and fast incorporation in all solvent borne and waterborne alkyd paints.

- Well balanced leveling and accelerated through drying performance
- High hardness development
- Strong improved "long term dry" performance during paint ageing
- Less discoloration versus Cobalt and other Manganese driers
- Very good anti-corrosion support in industrial DTM formulations
- Improved "anti-wrinkle" effect requires less addition of anti-skin agents
- Labeling free

### SUGGESTED USES

ADDITOL dry CF100 can be used as primary drier for all water dilutable, solvent borne and high solid oxidative drying alkyd resins. The innovative universal twin accelerated Manganese technology with unique ligand protection enables a labeling free use in high quality architectural and protective coating applications using oxidative drying alkyds.

The new products can be combined with all common secondary and auxiliary driers e.g. Aluminum, Barium, Calcium, Lithium, Potassium, Strontium, Zink or Zirconium.

ADDITOL dry CF100 uses a patented ligand protection which allows strongly improved "no loss of dry" performance in all alkyd paint systems.

### PROCESSING

ADDITOL dry CF100 can be directly added to the paint system at any stage of production.

Dosages of 0.3 to 0.9 %, calculated on solid binder, are recommended for medium solid and waterborne alkyds.

Ultra high solid alkyds require up to 1,3 % calculated on solid binder.

In case of direct Cobalt replacement in existing formulations, ADDITOL dry CF100 can be used in FOD at same levels as a Cobalt 10 % solution.

### STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

Upon long term exposure to temperatures below 10 °C, the viscosity could be strongly increased and ADDITOL dry CF100 may become cloudy and show some crystallization. These effects are reversible and can be eliminated by warming up the product to 25 - 30 °C for several hours. After this treatment the product can be used without any restrictions.

### DISTINGUISHING FEATURES

ADDITOL dry CF100 is the high performance twin accelerated Manganese for all clear and pigmented alkyd paints, while ADDITOL dry CF101 is based on single accelerated Manganese.

### COBALT REPLACEMENT EXAMPLE

1 part of ADDITOL VXW 6206 (Cobalt containing mix drier) may be replaced in waterborne formulations by 0,5 parts of ADDITOL dry CF101 / ADDITOL dry CF100 and 0,75 parts of ADDITOL dry CF200.

### REMARK:

**Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.**