ADDITOL® XL 6583

Technical Datasheet

PRELIMINARY PRODUCT INFORMATION

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.

TYPE

Dispersant for paints with sensitive cure mechanism

FORM OF DELIVERY (f.o.d.)

Active substance

approx. 80 % in MPAC

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	2500 - 4500
Colour / Appearance VLN 250		
colour		pale yellow
appearance		clear
Non-Volatile Matter DIN EN ISO 3251		
non-volatile matter (1 h; 125 °C; 1 g)	[%]	79 - 81
Acid Value DIN EN ISO 2114		
acid value (non volatile matter)	[mg KOH/g]	23 - 33

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,09
Flash Point DIN EN ISO 1523		
flash point approx.	[°C]	57

SPECIAL PROPERTIES

Additol XL 6583 is a dispersing agent for all paint systems with sensitive cure mechanism (e.g. acid or base catalyzed).
It can be used for inorganic and organic pigments, fillers and extenders. It stabilizes primary pigment particles by steric stabilization as well as electrostatic repulsion. It decreases mill base viscosity, especially in formulations with high pigment loading.

SUGGESTED USES

Suitable for radiation curing systems.

Additol XL 6583 can be used for all kind of industrial coating systems because of its broad range of compatibility. It's active content and high effectiveness makes Additol XL 6583 a perfect dispersant in solvent free and low VOC formulations.

Additol XL 6583 is highly recommended for:
- ACURE® technology
- 2 pack Epoxy Resins (solvent borne and 100 % solids)
- High Solid Acrylic Resins
- Melamine cured high bake systems

Special features:
- High pigment loading and gloss improvement
- Excellent color stabilization, anti-floating (rub-out) and anti-sedimentation effect
- Extreme hydrophobic polymer allows improved corrosion, water, humidity and weather resistances
- Very good compatibility to all resin systems with sensitive cure mechanism

PROCESSING

Additol XL 6583 delivers best dispersing results when added in the mill-base together with pigments and extenders.

The recommended quantity to be added, is as follows:
1 - 5 % for inorganic pigments and/or extenders
5 - 30 % for organic pigments

In ACURE based formulations always keep the dosage of Additol XL 6583 as low as requested for pigment wetting. The level of acid catalyst (e.g. succinimide) has to be optimized by ladder study to achieve best hardness development and dry time performance.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 730 days.

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.