ADDITOL® XL 180 BOND

Technical Datasheet

This product was previously marketed as **ADDITOL® XL 180**. All specifications, formulations, and performance characteristics remain unchanged.

TYPE

Special phosphoric acid ester to enhance intercoat adhesion of paint films

FORM OF DELIVERY (f.o.d.)

Active substance

approx. 98 %

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	200 - 500
Iodine Colour Number DIN 6162		
iodine colour number		<= 15
Acid Value DIN EN ISO 2114		
acid value (form of delivery)	[mg KOH/g]	260 -340
Non-Volatile Matter DIN 55671		
non-volatile matter (150 °C; 10 min)	[%]	88 - 92

Not continually determined:

Colour / Appearance VLN 250		
colour appearance		brown clear
Non-Volatile Matter DIN EN ISO 3251		
non-volatile matter * (1 h; 125 °C; 1 g)	[%]	88 - 92
pH-Value DIN ISO 976		
pH-value (10 %)		2 - 3
Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,02
Flash Point DIN EN ISO 1523		
flash point approx.	[°C]	72

SPECIAL PROPERTIES

ADDITOL® XL 180 BOND additive enhances intercoat adhesion of stoving paints and fast drying air-drying paints on electrodeposition primers, white electrodeposition paints and primers.

DILUTABILITY

ADDITOL® XL 180 BOND is dilutable with aliphatic and aromatic hydrocarbons, ketones, esters and alcohols, and is in its form of delivery not dilutable with water.

SUGGESTED USES

ADDITOL® XL 180 BOND additive improves intercoat adhesion between finish and primer. ADDITOL® XL 180 BOND has excellent compatibility characteristics with many binder systems and thus affords universal use. In water dilutable systems ADDITOL® XL 180 BOND is best used neutralized with amines, preferably triethylamine. Effects of the ADDITOL® XL 180 BOND additive are increased adhesion and enhanced flexibility of stoving alkyd or acrylic resin paints to primers and white paints applied by electrodeposition. In single coats on iron and aluminium, ADDITOL® XL 180 BOND does not seem to be efficience.

ADDITOL® XL 180 BOND as well as its salts can be combined with non-ionic and anionic substances with interfacial activity. Compatibility with cationic substances, however, should be checked individually to prevent mutual flocculation and reduction of gloss.

Experience so far has neither shown impaired weathering resistance nor reduced storage stability in connection with the use of ADDITOL® XL 180 BOND.

PROCESSING

ADDITOL® XL 180 BOND additive should be added to the finished paint prior to final adjustment of the viscosity, since it may in cases slightly reduce the viscosity.

The doses of ADDITOL® XL 180 BOND are substantially governed by the nature of the binder. Normally, quantities between 0.1 - 1 % on total paint are sufficient.
The efficiency of this additive should be individually checked prior to batch production.

If ADDITOL® XL 180 BOND is neutralized with amines, goggles for eye protection have to be worn.

STORAGE

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

*** Note**

The non-volatile matter content of a product is not an absolute quantity but depends upon the temperature and period of heating used for the test. Consequently, when using this method, only relative and not true values for non-volatile matter content are obtained owing to solvent retention, thermal decomposition and evaporation of low molecular mass constituents. The method is therefore primarily intended for testing different batches of the same type of product.
DIN EN ISO 3251 (09/95, page 2)