

ADDITOL® XL 180

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
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Iodine Colour Number DIN 6162 iodine colour number		<= 15
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Acid Value DIN EN ISO 2114 acid value (f.o.d)	[mg KOH/g]	260 -340
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Non-Volatile Matter DIN 55671 non-volatile matter (150 °C; 10 min)	[%]	88 - 92
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Not continually determined:

Colour / Appearance VLN 250 colour appearance		brown clear
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Non-Volatile Matter DIN EN ISO 3251 non-volatile matter *	[%]	88 - 92
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(1 h; 125 °C; 1 g)

pH-Value DIN ISO 976 pH-value (10 %)		2 - 3
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm³]	1,02
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Flash Point DIN EN ISO 1523 flash point approx.	[°C]	72
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SPECIAL PROPERTIES

Additol XL 180 enhances intercoat adhesion of stoving paints and fast drying air-drying paints on electrodeposition primers, white electrodeposition paints and primers.

DILUTABILITY

Additol XL 180 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 improves intercoat adhesion between finish and primer. Additol XL 180 has excellent compatibility characteristics with many binder systems and thus affords universal use. In water dilutable systems Additol XL 180 is best used neutralized with amines, preferably triethylamine. Effects of Additol XL 180 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 does not seem to be effieience.

Additol XL 180 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.

PROCESSING

Additol XL 180 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 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 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.

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