ADDITOL® XW 6591 DISP

Technical Datasheet

This product was previously marketed as **ADDITOL® XW 6591**. All specifications, formulations, and performance characteristics remain unchanged.

PRELIMINARY PRODUCT INFORMATION

TYPE

Water dilutable, modified polyester-acrylate polymer

FORM OF DELIVERY (f.o.d.)

34 % in water (34WA)
(containing also 6,5 % butyl glycol)

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.

Neutralization agent

2.5 % dimethyl ethanol amine, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	100 - 3000
Non-Volatile Matter DIN 55671		
non-volatile matter (125 °C; 10 min)	[%]	33 - 35
Acid Value DIN EN ISO 2114		
acid value (form of delivery)	[mg KOH/g]	15 - 30
pH-Value DIN ISO 976		
pH-value (10 %)		8,0 - 9,0
Colour / Appearance VLN 250		
colour		yellowish
appearance		clear to opaque

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,03
Flash Point (CCCFP) ASTM D 6450		
flash point	[°C]	> 95

SPECIAL PROPERTIES AND USE

ADDITOL® XW 6591 DISP is a water dilutable grinding medium which can be used for colour- and shading pigment pastes. It is compatible with waterborne air-drying and stoving alkyds, waterborne acrylic resins, UV-curing systems, PU- dispersions and plastic dispersions. ADDITOL® XW 6591 DISP is co-crosslinking in melamine and isocyanate curing systems.

It offers excellent wetting power for both inorganic and organic pigments.

Especially at high temperature baking conditions ADDITOL® XW 6591 DISP grinding medium offers a low level of thermo discoloration.

The pigment pastes are compatible with a wide variety of water dilutable binder systems. Special characteristics of binder systems remain unchanged by the use of ADDITOL® XW 6591 DISP. Leveling and gloss of coatings can be improved.

PROCESSING

	Kronos 2360	Heliogen blue L6905F	Carbon black FW
ADDITOL® XW 6591 DISP	15,00	50,00	64,17
deionized water	8,60	3,80	19,78
ADDITOL® VXW 6374 or XW 6581 DISP	1,00	5,00	2,31
ADDITOL® VXW 6387 DISP	2,50	-	-
ADDITOL® VXW 4973 XFOAM	0,60	1,20	1,54
pigment	72,00	40,00	11,55
Aerosil R972	0,30	-	-
DMEA	-	-	0,65
	100,00	100,00	100,00

To achieve best color performance and good long term pigment stabilization the use of an co-dispersant like ADDITOL® VXW 6374 DISP or ADDITOL® XW 6581 DISP is strongly recommended.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 days.

Water containing products may freeze at temperatures below 0 °C or become inhomogenous. The product does not suffer any damage from it, the necessary regeneration depends however on a longer warmth treatment at 40 - 50 °C while stirring. Therefore, such products should be stored away from frost.

DISTINGUISHING FEATURES

Due to the co-crosslinking capability of ADDITOL® XW 6591 DISP grinding medium in melamine and isocyanate systems final coatings show better chemical resistance and salt spray test results compared to any other type of waterborne grinding resin.

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.