

TYPE

Aqueous aromatic polyurethane dispersion, containing hydroxy groups

Neutralization agent

approx. 2.1 % N,N-dimethylethanolamine, as salt

FORM OF DELIVERY (f.o.d.)

40 % in water / N-ethylpyrrolidone (40WANEP)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	300 - 1500
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pH-Value DIN ISO 976

pH-value (20 %)		7,0 - 7,7
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	38,5 - 41,5
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Not continually determined:

Colour / Appearance VLN 250

appearance		clear to opaque
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,08
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Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 94
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SPECIAL PROPERTIES AND USE

Daotan TW 2229/40WANEP is a hydroxy functional polyurethane dispersion with shear stability, pigment compatibility giving highly flexible films when cured with isocyanates as well as melamine resins. The hydroxy value of the solid resin is approx. 43 mg KOH/g.

These properties allow the formulation of highly flexible coating systems, especially for primers to coat plastics. Such systems have good adhesion e.g. to rigid PVC, polyamide, ABS, as well as untreated PP/EPDM. The assured adhesion to each plastic substrate requires individual investigation. In addition Daotan TW 2229/40WANEP is also suited for formulating aqueous primer surfacers.

PROCESSING

Daotan TW 2229/40WANEP has good pigment wetting properties and is compatible with the commercially used pigments and extenders. Basic and alkaline sensitive pigments are not suitable. The use of certain additives such as Additol XL 250 ease pigment wetting and shorten dispersing time. The use of antissettling agents is generally not necessary. Foam generated during agitation and milling disappears within 24 hours.

When applying the formulated system a sufficient humidity level should exist to prevent blister formation.

STORAGE

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

It is important to protect Daotan TW 2229/40WANEP from frost; at low temperatures it has therefore to be stored under frostproof conditions.

DISTINGUISHING FEATURES

In comparison with Daotan VTW 2229/40WANMP, Daotan TW 2229/40WANEP contains NO N-methylpyrrolidone!

