

PRELIMINARY PRODUCT INFORMATION

TYPE

Waterborne, polyester based aliphatic polyurethane dispersion

FORM OF DELIVERY (f.o.d.)

40 % in water (40WA)

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

approx. 0.7 % dimethylethanolamine, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	10 - 1000
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Non-Volatile Matter DIN 55671

non-volatile matter (125 °C; 10 min; 0,8 g)	[%]	38,5 - 41,5
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pH-Value DIN ISO 976

pH-value (10 %)		7 - 8
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Not continually determined:

Colour / Appearance VLN 250

colour		pale yellow
appearance		opaque

Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 85
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SPECIAL PROPERTIES AND USE

Daotan STW 6434/40WA is the NMP/NEP- free alternative for Daotan (V)TW 6434. Alike latter Daotan STW 6434/40WA is a polyester based, high molecular weight Polyurethane dispersion, providing very fast physical drying at ambient temperature.

Due to high toughness and excellent elasticity Daotan STW 6434/40WA is recommended as modifier resin for waterborne OEM primer-surfacers to improve stone chipping resistance. Suggested Daotan STW 6434-quantities should be in the range from 10 to 30 parts (calculated on total solid resin), but compatibility with blending resins needs to be checked. Stoving conditions for coatings containing Daotan STW 6434 depend on the overall formulation and have to be chosen accordingly.

As a sole binder Daotan STW 6434 can also be used for physically drying coatings and - in combination with waterdilutable melamine resins - for stoving enamels. Latter provide higher chemical resistance and film hardness.

STORAGE

It is important to protect Daotan STW 6434 from frost; at low temperatures it has therefore to be stored under frostproof conditions.

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

Lowest storage temperature: 5 °C

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.