

TYPE

Aqueous dispersion of an aliphatic urethane-acryl-hybrid, solvent and emulsifier free

Neutralization agent

0.8 % N,N-dimethyl ethanolamine, as salt

FORM OF DELIVERY (f.o.d.)

36 % in water (36WA)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	15 - 250
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pH-Value DIN ISO 976

pH-value (10 %)		7,4 - 8,4
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	35 - 37
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Not continually determined:

Colour / Appearance VLN 250

colour appearance		pale yellow opaque
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,05
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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SPECIAL PROPERTIES AND USE

Daotan VTW 6463 is a solvent-free acrylated polyurethane dispersion with very good wetting properties, quick curing to give clear crack-free films.

Daotan VTW 6463 is stable to applied shear forces and has good pigment compatibility. Cured films show good abrasion resistance and have good resistance to household detergents.

This polyurethane emulsion was designed to formulate coating systems for various plastics such as ABS, PA, rigid PVC, flexible PVC and PMMA. Aqueous primers and base coats can be formulated. The adhesion to any plastic substrate to be coated should be carefully examined firstly.

STORAGE

At temperatures from 5 °C to 25 °C storage stability packed in original containers amounts to at least 450 days.

It is important to protect Daotan VTW 6463 from frost; at low temperatures it has therefore to be stored under frostproof condition.

DISTINGUISHING FEATURES

Daotan VTW 6463 is more flexible than Daotan VTW 6465 and has a higher molecular weight than the uncrosslinked VTW 6465. Moreover, Daotan VTW 6463, compared to Daotan VTW 6462, has no self-crosslinking moieties.

