

**PRELIMINARY PRODUCT INFORMATION**

**TYPE**

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

**FORM OF DELIVERY (f.o.d.)**

36 % in water (36WA)

**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**

0.85 % N,N-dimethyl ethanolamine, as salt

**TENTATIVE PRODUCT DATA**

**Determined per batch:**

**Dynamic Viscosity DIN EN ISO 3219**  
dynamic viscosity [mPa.s] 10 - 250  
(100 1/s; 23 °C)

**pH-Value DIN ISO 976**  
pH-value 7,3 - 8,5  
(10 %)

**Non-Volatile Matter DIN 55671**  
non-volatile matter [%] 35 - 37  
(125 °C; 10 min)

**Not continually determined:**

**Colour / Appearance VLN 250**  
colour pale yellow  
appearance opaque

**Non-Volatile Matter DIN EN ISO 3251**  
non-volatile matter [%] 35 - 37  
(1 h; 125 °C; 1 g)

**Density (Liquids) DIN EN ISO 2811-2**  
density [g/cm<sup>3</sup>] 1,05  
approx.  
(20 °C)

**Flash Point (CCCFP) ASTM D 6450**  
flash point [°C] > 95

**SPECIAL PROPERTIES AND USE**

Daotan TW 6466 is a polyester- based, acrylic modified, high molecular weight polyurethane dispersion. The resin provides shear stability and is free of solvents and emulsifiers. Dried at ambient temperature Daotan TW 6466 yields clear and crack-free films without any previous addition of solvents or paint additives.

In conjunction with thickeners (especially layered silicates) Daotan TW 6466 is providing a unique viscosity behavior, i.e. already small additions of thickener cause a significant pseudoplasticity. Accordingly Daotan TW 6466 is a perfect fit for high quality, waterborne metallic Basecoat formulations for automotive OEM application. These Basecoats are characterized by outstanding appearance, excellent mechanical properties and wet adhesion as well as very good outdoor durability.

**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 6466 from frost; at low temperatures it has therefore to be stored under frostproof conditions.

Due to the quick physical drying of Daotan TW 6466 it is strongly recommended to filter the product (5 µm filter) prior to use.

**DISTINGUISHING FEATURES**

In comparison with Daotan VTW 6462 and 6463 Daotan TW 6466 provides higher flexibility, better wet adhesion and lower tendency for pinhole formation during spray application. With regard to rheological behavior our investigations did not reveal any differences amongst the mentioned grades.

**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.**