

### TYPE

Hydroxy functional polyester; cross-linkable with polyisocyanates for the production of ultra high solids lacquers

### Average hydroxyl content (solid resin)

approx. 6.0 %

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

78 % in butyl acetate (78BAC)

### PRODUCT DATA

#### Determined per batch:

#### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	7000 - 19000
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#### Colour Scale (Hazen) DIN EN ISO 6271-1

Hazen colour value		<= 50
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#### Hydroxyl Value DIN EN ISO 4629 (VLN 283)

hydroxyl value (solid matter content)	[mg KOH/g]	185 - 215
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#### Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 2 g; ethyl acetate)	[%]	76 - 80
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#### Colour / Appearance VLN 250

colour		colourless
appearance		clear

#### Not continually determined:

#### Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm <sup>3</sup> ]	1,14
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#### Flash Point DIN EN ISO 1523

flash point approx.	[°C]	31
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### SPECIAL PROPERTIES AND USE

Duroftal VPI 2803 in combination with aliphatic polyisocyanates, pre-eminently with Desmodur N 3300 (Covestro), produces high quality, ultra high solids, two pack clearcoats and pigmented topcoats for the automotive refinishing and industrial lacquer sectors.

Based on Duroftal VPI 2803 clearcoats with a VOC (volatile organic compound) of 350 g/l and pigmented topcoats with a VOC of at most 420 g/l can be achieved.

#### Cured films provide:

- high hardness
- high gloss and depth of image
- excellent solvent and chemical resistance
- superior weathering stability

### DILUTABILITY

Duroftal VPI 2803 is completely dilutable with esters, ketons and toluene.

With xylene and higher boiling aromatic solvents dilutability is given in a wide range. Dilutability should be tested before use.

### COMPATIBILITY

In general, Duroftal VPI 2803 shows compatibility with a wide range of acrylic and polyester binders as well as with standard polyisocyanates used in two pack polyurethane lacquers. However, compatibility should be tested before use.

### STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 730 days.

### DISTINGUISHING FEATURES

Compared to Duroftal VPI 2801, Duroftal VPI 2803 needs a lower amount of polyisocyanate for stoichiometric crosslinking.

