

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/cm³]	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 refinish 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.

