

TYPE

Hydroxy functional acrylic resin for fast drying polyurethane primers, furniture and industrial coatings, crosslinkable with polyisocyanates

Average hydroxyl content (solid resin)

approx. 2.0 %

FORM OF DELIVERY (f.o.d.)

50 % in butyl acetate / xylene (50BACX)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	350 - 950
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Colour Scale (Hazen) DIN EN ISO 6271-1

Hazen colour value		<= 100
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Acid Value DIN EN ISO 2114

acid value (non volatile matter)	[mg KOH/g]	6 - 12
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Hydroxyl Value (cat.) DIN EN ISO 4629

hydroxyl value (solid matter content; potentiometric)	[mg KOH/g]	60 - 72
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g; toluene)	[%]	48 - 52
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Not continually determined:

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	0,99
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Flash Point DIN EN ISO 1523

flash point approx.	[°C]	25
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SPECIAL PROPERTIES AND USE

Due to rapid physical drying, Macrynal SM 666 produces fast drying 2pack polyurethane primers, industrial and furniture coatings of high hardness. It is also suited for coatings on polyurethane hard foam parts. Primers based on Macrynal SM 666 and aromatic polyisocyanates are sandable already after 10 minutes, depending on formulation.

For furniture coatings, Macrynal SM 666 can be combined with nitrocellulose or other co-polymerisates. These coatings based on Macrynal SM 666 should be crosslinked with aliphatic polyisocyanates.

DILUTABILITY

Macrynal SM 666 can be diluted with ester solvents, ketones, aromatic solvents, and with glycol acetates.

STORAGE

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

DISTINGUISHING FEATURES

Compared to Macrynal SM 681 and Macrynal SM 685, Macrynal SM 666 provides shorter drying times and higher hardness. However, weather resistance of top coats formulated with Macrynal SM 666 is lower.

