

MACRYNAL[®] SM 1009/50BAC

TYPE

Acrylic resin containing hydroxyl groups for crosslinking with polyisocyanates

Average hydroxyl content (solid resin)

approx. 1.7 %

FORM OF DELIVERY (f.o.d.)

50 % in butyl acetate (50BAC)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	4000 - 6500
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Colour Scale (Hazen) DIN EN ISO 6271-1 Hazen colour value		<= 80
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Hydroxyl Value (cat.) DIN EN ISO 4629 hydroxyl value (solids)	[mg KOH/g]	45 - 65
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Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 2 g; EAC)	[%]	48 - 52
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Not continually determined:

Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,01
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Flash Point DIN EN ISO 1523 flash point approx.	[°C]	25
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SUGGESTED USES

In combination with aliphatic polyisocyanates Macrynal SM 1009 is primarily suggested for air drying or forced air drying two-pack systems in the automotive interiors.

PROCESSING

Curing with polyisocyanates

Based on 100 % conversion of reactive groups the following equation can be used to calculate the quantity of polyisocyanate needed for crosslinking 100 parts Macrynal SM 1009 (on solids):

$$\text{polyisocyanate (f.o.d.)} = \frac{42 \times 100 \times \text{OH\% (solid resin)}}{17 \times \text{NCO\% (f.o.d.)}}$$

42 = molecular weight of the NCO-group

17 = molecular weight of the OH-group

Dilution

Macrynal SM 1009 has unlimited dilutability with toluene, xylene, acetone, methyl ethyl ketone, methyl isobutyl ketone, methoxy propyl acetate, ethyl acetate, butyl acetate and blends of these solvents. Anhydrous solvents as well as solvents free of hydroxy functional groups should be used in the presence of polyisocyanates.

STORAGE

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

3.0/17.07.2013 (replaces all previous versions)

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