

MACRYNAL[®] SM 510n/60LGV4

TYPE

Hydroxy functional acrylic resin designed for crosslinking with polyisocyanates

SPECIAL PROPERTIES AND USE

At room temperature drying or forced drying two-pack systems with high gloss, excellent mechanical properties, superior outdoor stability and chemical resistance, in particular for automotive repair topcoats or clearcoats.

FORM OF DELIVERY (f.o.d.)

60 % in solvent mixture variant 4 (60LGV4)
(xylene : methoxypropyl acetate = 1 : 1)

Average hydroxyl content (solid resin)

approx. 4.5 %

DILUTABILITY

white spirit	»	methyl ethyl ketone	}
toluene	}	methyl isobutyl ketone	}
xylene	}	methoxypropyl acetate	}
solvent naphtha 150/180	½	ethyl acetate	}
acetone	}	butyl acetate	}

}

½ = substantial dilutability

¾ = limited dilutability

» = very limited or no dilutability

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219
dynamic viscosity [mPa.s] 2500 - 4000
(100 1/s; 23 °C)

Colour Scale (Hazen) DIN EN ISO 6271-1
Hazen colour value <= 60

Acid Value DIN EN ISO 2114
acid value [mg KOH/g] 5 - 10
(solids)

Hydroxyl Value (cat.) DIN EN ISO 4629
hydroxyl value [mg KOH/g] 140 - 160
(solids)

Non-Volatile Matter DIN EN ISO 3251
non-volatile matter [%] 58 - 62
(1 h; 125 °C; 2 g; EAC)

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2
density [g/cm³] 1,03
approx.
(20 °C)

Flash Point DIN EN ISO 1523
flash point [°C] 31
approx.

COMPATIBILITY

% Macrynal SM 510n	90	75	50	25	10
% other binder	10	25	50	75	90
Alkyd resins					
Vialkyd AC 290, AC 451n	}	}	}	}	}
Vialkyd AF 342	»	»	»	}	}
Vialkyd AN 950	}	}	}	}	}
Acrylic resins					
Viacryl SC 121	»	»	»	»	»
Viacryl SC 370	}	}	}	}	}
Macrynal SM 510, SM 513, SM 515, SM 516	}	}	}	}	}
Macrynal SM 500, SM 540	»	»	»	»	»
Macrynal SM 548	}	}	»	»	»
Polyisocyanates					
Desmodur L, N	}	}	}	}	}
Beckocoat PU 428, PU 432	}	}	}	}	}
Other binders					
Beckopox EP 140	}	}	}	}	»
Beckopox EP 301	}	}	}	}	}
Hostaflex CM 158	}	}	}	}	}
Hostaflex CM 620	»	»	»	»	»
Ucar solution vinyl resin VAGH	}	}	}	}	}
CAB-551-0.2	}	»	»	»	}
CAB-381-0.1	»	»	»	»	}
nitrocellulose 24 E	}	}	}	}	}

}

½ = definite compatibility

» = very limited or no compatibility

