

VIACRYL[®] SC 341/60SNABAC

TYPE

Acrylic resin, heat-reactive with amino resins

FORM OF DELIVERY (f.o.d.)

60 % in solvent naphtha 150/180 / butyl acetate (60SNABAC)

SPECIAL PROPERTIES AND USE

Superior radiance, high surface hardness, excellent weather resistance. Medium solid acrylic resin for uni-coloured automobile finishes and isocyanate systems. With light stabilizers for clear coats over metallic basecoats.

Easy and safe application.

RESIN COMPOSITION

Copolymer carrying carboxy and hydroxy groups

Average hydroxyl content (solid resin)

approx. 2.6 %

OH equivalent weight (f.o.d.)

approx. 1085

DILUTABILITY

special white spirit 100/140	»	methyl isobutyl ketone	}
white spirit	»	butyl acetate	}
turpentine oil	}	methoxypropyl acetate	}
xylene	}	methoxypropanol	}
solvent naphtha 180/210	}	ethanol	}
acetone	}	butanol	}

} = unlimited dilutability

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] 1000 - 2000
(25 1/s; 23 °C)

Iodine Colour Number DIN 6162
iodine colour number <= 2

Acid Value DIN EN ISO 2114
acid value [mg KOH/g] 13 - 20
(solids)

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

Not continually determined:

Hydroxyl Value DIN 53240
hydroxyl value [mg KOH/g] 86
approx.
(solids)

Density (Liquids) DIN EN ISO 2811-2
density [g/cm³] 0,99
approx.
(20 °C)

Flash Point DIN EN ISO 1523
flash point [°C] 37
approx.

COMPATIBILITY

% Viacryl SC 341	90	75	50	25	10
% other binder	10	25	50	75	90

Acrylic resins					
Viacryl SC 434	}	}	}	}	}
Alkyd resins					
Vialkyd AC 290	}	}	}	}	}
Polyisocyanates					
Desmodur N	}	}	}	}	}
Desmodur L	}	}	}	}	}
Other binders					
Beckopox EP 301	}	}	»	»	»
Beckopox EP 304	»	»	»	»	»
nitrocellulose 24 E	}	}	}	}	}
CAB-551-0.2	»	»	»	»	»
Plasticizers					
benzyl butyl phthalate	}	}	}	}	}

} = definite compatibility

» = very limited or no compatibility

SUGGESTED USES

Viacryl SC 341 is used in combination with amino resins, preferably with reactive melamine resins. Polyurethane based thickness layer coatings can be formulated in combination with aliphatic polyisocyanates (e.g. Desmodur N).

Stoving paints

Suitable crosslinkers for Viacryl SC 341 in the first place are butylated melamine resins, e.g. Maprenal MF 514, in a resin solids ratio of from 70 : 30 to 80 : 20. Spray application of paints on Viacryl SC 341 is excellent. Even when applied in thick layer, there is only a slight tendency to sagging on vertical surfaces and to blistering or popping during stoving. The paints may also be rendered thicotropic with silicates, without the gloss being reduced.

Film properties

Film of paints on Viacryl SC 341 have a superior decorative performance, like radiant brilliance, excellent levelling and very good build besides great hardness and gasoline resistance. Weathering tests in Florida showed very good results. Thus, Viacryl SC 341 is an ideal binder for top-quality automotive finishes.

PROCESSING

Owing the good pigment wetting characteristics of Viacryl SC 341 any normal equipment dispersion can be used. Wetting and dispersing aids (e. g. Additol XL 204) can be coemployed. The pigment paste is reduced with the rest of Viacryl SC 341 and with Shellsol A or Solvesso 100 to the desired viscosity.

Dilution

Aromatic hydrocarbons are used for dilution to spraying viscosity, in particular Shellsol A or Solvesso 100. Spraying viscosity: 20 - 35 s (DIN EN ISO 2431, 5 mm, 23 °C)

Stoving conditions

For obtaining optimum film properties we recommend the following stoving schedules:

<i>Stoving temperature</i>	<i>stoving time</i>
100 °C (with catalyst)	30 min
120 °C	30 min
135 °C	30 min
150 °C	20 min

Suitable crosslinking catalysts for 100 °C are organic acids, like maleic acid or its semi esters, p-toluenesulfonic acid, etc. Good results are obtained e.g. with 5 % of maleic acid, calculated on melaine resin solids.

STORAGE

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

SPECIAL INDICATIONS

For clear coats over metallic base coats light stabilizers should be added to the formulation.

Producer:

Desmodur N, L (Bayer)
CAB-551-0.2 (Eastman)

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• Worldwide Contact Info: www.allnex.com •

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