

TYPE

Thermoplastic methacrylate resin

FORM OF DELIVERY (f.o.d.)

50 % in white spirit (50WS)

SPECIAL PROPERTIES AND USE

Excellent compatibility with alkyd resins. Rapid solvent release. Excellent through-drying and surface hardness. Colour stability in the light, in the dark and at elevated temperature.

Maintenance paints, architectural paints. Air-drying and forced drying industrial enamels. Satin gloss enamels and flat structured enamels.

RESIN COMPOSITION

Copolymer based on methacrylates

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 3500 - 8000
(25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 5

Acid Value DIN EN ISO 2114

acid value [mg KOH/g] < 5
(non volatile matter)

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter [%] 48 - 52
(1 h; 125 °C; 1 g; ethyl acetate)

Not continually determined:

Colour / Appearance VLN 250

colour yellow
appearance clear to light cloudy

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 0,90
approx.
(20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] 26
approx.

DILUTABILITY

special white spirit 100/140	●	methyl isobutyl ketone	●
white spirit	●	butyl acetate	●
turpentine oil	●	methoxypropyl acetate	●
xylene	●	methoxypropanol	●
Shellsol AB	●	ethanol	○
acetone	●	butanol	●

● = unlimited dilutability
○ = substantial dilutability

⊙ = limited dilutability
○ = very limited or no dilutability

COMPATIBILITY

% Viacryl SC 124	90	75	50	25	10
% other binder	10	25	50	75	90

Alkyd resins

short oil, drying	○	●	●	●	○
Vialkyd AM 342	○	○	○	●	●
medium oil, drying	○	○	●	●	●
long oil, drying	○	●	●	●	●

Other binders

Alpex CK 450	○	●	●	●	●
nitrocellulose 24 E	○	○	○	○	●

Drying oils

refined linseed oil	●	●	●	●	●
linseed oil stand oil 4 Pa.s	○	○	○	○	○

● = definite compatibility

○ = very limited or no compatibility

SUGGESTED USES

Viacryl SC 124 is a physically drying methacrylate resin used in conjunction with low viscosity drying oils, medium and long oil alkyds or cyclized-rubber in the formulation of various coating systems. It is not intended as sole binder.

Architectural enamels, trade paints

Paints with additions of Viacryl SC 124 show rapid initial and exceptional through-drying and yield excellent surfaces also in thick layer. The great hardness and the colour retention in the light, in the dark and at elevated temperature should be specially stressed. The most favourable level of Viacryl SC 124 ranges between 10 to 20 % calculated as resin solids.

Machine enamels, automobile repair enamels

The rapid solvent release of Viacryl SC 124 greatly recommends combination with medium oil alkyds for deep gloss quick-drying industrial enamels. Further advantages are high impact and mar resistance, excellent weather resistance and durable flexibility.

Satin gloss and flat finishes

Air-drying effect finishes are a special outlet for Viacryl SC 124, where flat effect and resistance to wiping are markedly improved by additions of Viacryl SC 124. It is a particular advantage that flatting pastes consisting of Viacryl SC 124 and flatting agent can be added to normal gloss paints to achieve any desired degree of flat effect.

PROCESSING

Viacryl SC 124 can be blended at ambient temperature with normal alkyds and other paint raw materials. We recommend to admix Viacryl SC 124 after the driers had been incorporated since they may form metal complexes with Viacryl SC 124 and thus become ineffective. Viacryl SC 124 shows also excellent compatibility with normal pigments and fillers. In preparing the flatting past, the flatting agent is charged, Viacryl SC 124 is added while stirring, then the solvents, e.g. white spirit or Kristallöl 60, are stirred in. The batch is homogenized for about 10 minutes with a dissolver. The temperature should not surpass 40 °C.

STORAGE

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