

### TYPE

Thermoplastic acrylic resin

### FORM OF DELIVERY (f.o.d.)

60 % in xylene (60X)

### SPECIAL PROPERTIES AND USE

**Sole binder for road-marking paints.**

**Fast drying primers and top coats for nonferrous metal and plastic substrates.**

### RESIN COMPOSITION

Copolymer based on styrene/acrylic acid ester

### PRODUCT DATA

**Determined per batch:**

#### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	5000 - 9000
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#### Iodine Colour Number DIN 6162

iodine colour number		<= 3
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#### Acid Value DIN EN ISO 2114

acid value (non volatile matter)	[mg KOH/g]	15 - 25
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#### Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 2 g; ethyl acetate)	[%]	58 - 62
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**Not continually determined:**

#### Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,00
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#### Flash Point DIN EN ISO 1523

flash point approx.	[°C]	26
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### DILUTABILITY

special white spirit 80/120	⊙	acetone	●
white spirit	○	methoxypropanol	●
xylene	●	methoxypropyl acetate	●
solvent naphtha 180/210	●	methyl ethyl ketone	●
ethyl acetate	●	ethanol	○
butyl acetate	●	butanol	⊙

● = unlimited dilutability  
 ○ = substantial dilutability

⊙ = limited dilutability  
 ○ = very limited or no dilutability

### COMPATIBILITY

% Viacryl SC 121	90	75	50	25	10
% other binder	10	25	50	75	90

#### Acrylic resins

Viacryl SC 126, SC 154, SC 160, SC 166	●	●	●	●	●
Viacryl VSC 5750	●	●	●	●	●

#### Alkyd resins

Vialkyd AF 342, AF 360	○	○	○	○	●
Vialkyd AM 440	●	●	●	○	●

#### Plasticizers

Hordaflex LC 50	●	●	●	●	●
Dibutylphthalat	●	●	●	●	●

#### Other binders

Cyclokautschuk, z. B. Alpex CK 450	○	○	○	●	●
Hostaflex CM 620, CM 630	○	○	○	○	○
Nitrocellulose 24 E	○	○	○	●	●

● = definite compatibility

○ = very limited or no compatibility

### SUGGESTED USES

#### Road-marking paints

Viacryl SC 121 was especially developed as sole binder for road-marking paints. Road-marking paints based on this copolymer have excellent adhesion and abrasion resistance, permanent flexibility as well as good whiteness retention.

It is, however, recommended to first conduct a trial application under the given conditions to ensure suitability.

#### Coating of plastics

One-coat paints based on Viacryl SC 121 show especially good adhesion to plastics such as PVC, acrylic sheet, polycarbonate and polyester reinforced components.

#### Primers and top-coats on metallic substrates

In view of its fast initial and through drying as well as its good water resistance Viacryl SC 121 is suitable for formulating one-coat paints and industrial primers. Coatings based on this product show good adhesion to steel, aluminium and zinc. For aluminium substrates a binder pigment ratio of about 1 : 2 should be selected. For steel a ratio of 1 : 1.5 is recommended. Decorative finishes are generally pigmented in ratios of 1 : 1 (binder / pigment) on solids.

### PROCESSING

Viacryl SC 121 has excellent pigment wetting properties. For this reason even at a pigmentation level of 1 : 1 with titanium dioxide glossy films are obtained. This resin is compatible with all pigments and extenders generally used in the coatings industry with exception of basic pigments such as zinc oxide. The use of carbonate extenders in higher quantities can promote viscosity increases. A careful evaluation of such products should be made.

### STORAGE

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

### DISTINGUISHING FEATURES

Viacryl SC 121 is less flexible than Viacryl SC 126.