

TYPE

Thermoplastic acrylic resin

FORM OF DELIVERY (f.o.d.)

50 % in solvent mixture (50LG)

SPECIAL PROPERTIES AND USE

Rapid solvent release, excellent adhesion.
Quick trafficability after application.
Proved durability and flexibility.

Sole binder for road marking paints.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 360 - 930
 (25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 3

Acid Value DIN EN ISO 2114

acid value [mg KOH/g] 7 - 15
 (non volatile matter)

Non-Volatile Matter DIN 55671

non-volatile matter [%] 48 - 52
 (150 °C; 10 min)

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

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

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 0,94
 approx.
 (20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] -9
 approx.

DILUTABILITY

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

● = unlimited dilutability
 ● = substantial dilutability

⊙ = limited dilutability
 ○ = very limited or no dilutability

COMPATIBILITY

% Viacryl SC 126	90	75	50	25	10
% other binder	10	25	50	75	90

Polymers

Laroflex MP 45 ○ ○ ○ ○ ○

Pergut S 20 ● ● ● ● ●

Plasticizers

Hordaflex LC 50 ● ● ● ● ●

● = definite compatibility

○ = very limited or no compatibility

SUGGESTED USES

Road-marking paints

Viacryl SC 126 is specially designed as sole binder for road-marking paints. The traffic paints show excellent durable flexibility and retention of white.

If Viacryl SC 126 is intended for use in warm climates, the thermoplasticity of this binder should be reduced by adding up to 20 % (on solid resin) of chlorinated rubber. Definitive quality standards can be established on account of field markings only.

PROCESSING

Pigmentation

Viacryl SC 126 as a thermoplastic acrylic resin exhibits a superior pigment wetting capacity. Thus, with a pigment binder ratio as high as 1 : 1 with titanium dioxide (binder : pigment, on solid resin) gloss paints are obtained. The resin is compatible with normally used paint pigments and extenders - with the exemption of basic pigments, like zinc oxide. Various carbonate containing extenders may lead to thickening at high levels and thus should be tested before. In road-marking paints on Viacryl SC 126 the solids binder ratio to pigments is 1 : 4 (on solid resin).

In the formulation of road traffic paints Viacryl SC 126 no additional plasticizers are required, unlike with most other physically drying binders. The excellent dispersing characteristics of Viacryl SC 126 afford economic processing.

Speed of drying meets general requirements, if highly volatile solvents with low evaporation value, like toluene, acetone or ethylacetate, or mixture therefore are used.

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.