

TYPE

Physically drying plasticized acrylic copolymer

FORM OF DELIVERY (f.o.d.)

50 % in white spirit (50WS)

SPECIAL PROPERTIES AND USE

Sole binder for heavily filled paints for exterior walls, interior walls, Eternit, concrete and for brushing mortars; excellent levelling, with a flexibility not requiring further plasticizers. Viacryl SC 120 contains a high molecular gel to improve rheological quality.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 1200 - 2400
(25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 5

Non-Volatile Matter DIN EN ISO 3251

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

Not continually determined:

Colour / Appearance VLN 250

colour yellow
appearance opaque
*

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 0,90
approx.
(20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] 35
approx.

* sometimes jelly-like

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 ⊙ = limited dilutability
 ○ = substantial dilutability ○ = very limited or no dilutability

COMPATIBILITY

| | | | | | |
|------------------|----|----|----|----|----|
| % Viacryl SC 120 | 90 | 75 | 50 | 25 | 10 |
| % other binder | 10 | 25 | 50 | 75 | 90 |

Acrylic resins

| | | | | | |
|------------------------|---|---|---|---|---|
| Viacryl SC 154 | ● | ● | ● | ● | ● |
| Viacryl SC 133, SC 134 | ○ | ○ | ○ | ○ | ○ |

Polymers

| | | | | | |
|--------------|---|---|---|---|---|
| Alpex CK 450 | ● | ○ | ● | ● | ● |
| Pergut S 40 | ○ | ○ | ○ | ○ | ○ |

Plasticizers

| | | | | | |
|------------------|---|---|---|---|---|
| Hordaflex LC 50 | ● | ● | ● | ● | ● |
| dibutylphthalate | ● | ● | ● | ● | ● |

● = definite compatibility ○ = very limited or no compatibility

SUGGESTED USES

Viacryl SC 120 is an acrylic copolymer drying through evaporation of the solvent without any chemical reaction. The macromolecules of this binder carry plasticizing components providing durable flexibility. Thus no additional plasticizers need be used. Furthermore, Viacryl SC 120 contains a high molecular gel to improve the rheological properties. Highly pigmented paints with this binder show very good levelling, even if containing agents conveying thixotropic properties.

Viacryl SC 120 is designed as sole binder for highly pigmented paints for exterior and interior walls, eternit, cement and concrete and also for plasterings and renderings.

PROCESSING

Renderings and plasterings on Viacryl SC 120 are prepared on a dissolver with a circumferential speed of about 20 m/s. In plasterings the coarse extenders are added at lower speed towards the end of the dispersion process. Wetting agents may be added. Owing to the good wetting properties of Viacryl SC 120, they may, in many cases, be omitted.

In case thixotropic properties are desired, these may be obtained by adding Bentone, Aerosil or fibre type extenders.

Suitable pigments are inorganic coloured pigments, colour fast and alkali resistant, and titanium dioxide. Alkali-resistant organic pigments must show good colour fastness also in conjunction with inorganic pigments and extenders.

Suitable extenders are inorganic minerals, in the first place calcites, silicates, and quartz. We recommend individual tests.

The solvent of choice for dilution to application viscosity is white spirit. Paints renderings and plasterings based on Viacryl SC 120 are applied by brushing, roller coating or spraying.

STORAGE

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

Producer:

Pergut S 40 (Covestro)
Hordaflex LC 50 (Leuna-Tenside GmbH)