

TYPE

Physically drying acrylic copolymer

FORM OF DELIVERY (f.o.d.)

45 % in butyl acetate (45BAC)

SPECIAL PROPERTIES AND USE

Extremely fast solvent release.
High gloss in topcoats.
Good adhesion to metals.
Good compatibility with aerosols such as propane / butane.

Rapid drying industrial finishes and aerosol coatings.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 350 - 700
 (25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 4
 possibility of slight opalescence

Acid Value DIN EN ISO 2114

acid value [mg KOH/g] < 3
 (non volatile matter)

Non-Volatile Matter DIN 55671

non-volatile matter [%] 43,5 - 46,5
 (150 °C; 10 min)

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter [%] 43,5 - 46,5
 (1 h; 125 °C; 1 g)

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 0,97
 approx.
 (20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] 27
 approx.

DILUTABILITY

special white spirit 100/140	⊙	acetone	●
white spirit	⊙	methyl isobutyl ketone	●
turpentine oil	●	butyl acetate	●
xylene	●	methoxypropanol	●
solvent naphtha 150/180	●	butanol	⊙
Shellsol T	⊙		

● = unlimited dilutability
 ○ = substantial dilutability

⊙ = limited dilutability
 ○ = very limited or no dilutability

COMPATIBILITY

% VIACRYL SC 166	90	75	50	25	10
% other binder	10	25	50	75	90

Alkyd resins

SETAL A F 48 TB/X ○ ○ ● ● ●

Modified alkyd resins

VIALKYD AV 384 ● ● ● ● ●

Other binders

Unimoll BB ● ● ● ● ●

nitrocellulose 24 E ● ● ● ○ ○

● = definite compatibility ○ = very limited or no compatibility

SUGGESTED USES

VIACRYL SC 166/45BAC is a physically drying acrylic resin with rapid solvent release. It is therefore suited for formulating very fast drying industrial topcoats with high gloss and good adhesion to various metallic substrates. Coatings based on VIACRYL SC 166 are non-yellowing and have excellent outdoor durability. In view of its rapid drying properties coatings formulated with VIACRYL SC 166 can only be applied by spraying.

PROCESSING

The good compatibility of VIACRYL SC 166/45BAC with aerosols such as propane/butane makes it suitable for even formulating aerosol coatings. When properly adjusting the viscosity such coatings have a proper spray pattern and beautiful gloss.

VIACRYL SC 166 can also be used together with modified alkyd resins such as VIALKYD AV 384. When using such oxidizing alkyd resins the solvent resistance of the cured films can be improved.

The use of up to 0.5 % ADDITOL XL 203 on total formulated solids is recommended to prevent pigment floating.

VIACRYL SC 166 can appear slightly opalescent. The quality of the product and the formulated coating is not affected.

SHELF LIFE

Standard Shelf Life is 730 days from the date of manufacturing. For products still in allnex possession allnex may extend the expiration date of a batch upon re-testing by QC.

STORAGE CONDITIONS

The recommended storage temperature of VIACRYL SC 166/45BAC ranges from 0 to 25°C.

Producer:
Unimoll BB (Bayer)