

TYPE

Thermosetting self-crosslinking acrylic resin

FORM OF DELIVERY (f.o.d.)

50 % in isobutanol / xylene (50IBX)

SPECIAL PROPERTIES AND USE

Very quick solvent release.

Low viscosity, excellent built.

Excellent durable flexibility combined with hardness.

In combination with nitrocellulose for metal and wood enamels.

RESIN COMPOSITION

Copolymer carrying methylol and hydroxy groups

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	270 - 590
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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]	10 - 17
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	48 - 52
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	0,94
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Flash Point DIN EN ISO 1523

flash point approx.	[°C]	24
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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
○ = substantial dilutability

⊙ = limited dilutability
○ = very limited or no dilutability

COMPATIBILITY

% Viacryl SC 434	90	75	50	25	10
% other binder	10	25	50	75	90

Alkyd resins

Vialkyd AC 433	○	○	○	○	○
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Other binders

nitrocellulose 24E	●	●	●	●	●
Ucar solution vinyl resin VAGH	●	●	●	●	●

Plasticizers

dibutylphthalate, dioctylphthalate	●	●	●	●	●
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● = definite compatibility

○ = very limited or no compatibility

SUGGESTED USES

Viacryl SC 434 is used in combination with nitrocellulose for high gloss metal and wood enamels with excellent weather resistance. The quick solvent release guarantees fast through-drying and mechanical resistance. The paints can be recoated at any time. The low viscosity entails high build paints.

Flexibility and weather resistance of pigmented NC-combination enamels are excellent. The outstanding yellowing resistance and the pale colour of the resin make it an ideal binder for white or pastel NC-combination enamels. Viacryl SC 434 imparts enhanced performance to NC-combination enamels in terms of better adhesion to metal, hardness, flexibility, and gloss. Paints on this basis yield single coats with excellent adhesion to metal and excellent mechanical properties.

Viacryl SC 434 can also be used as the plasticizing component of acrylic stoving systems.

PROCESSING

Since Viacryl SC 434 has a strongly plasticizing effect, the level of gelatinizing plasticizers can be kept rather low.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

Producer:

Ucar solution vinyl resin VAGH (Union Carbide Benelux NV)