

TYPE

High-elastic thermosetting oil-free polyester resin

FORM OF DELIVERY (f.o.d.)

70 % in xylene (70X)

SPECIAL PROPERTIES AND USE

Outdoor durable, nonyellowing one coat stamping and deepdrawing coil-coating systems for aluminium, sheet steel and tin sheet as well as for automotive primer surfacers and metallic base coats.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 2300 - 3100
(25 1/s; 23 °C)

Iodine Colour Number DIN 6162

iodine colour number <= 5

Non-Volatile Matter DIN 55671

non-volatile matter [%] 68 - 72
(120 °C; 5 min; 0,6 - 0,8 g)

Acid Value DIN EN ISO 2114

acid value [mg KOH/g] < 12
(non volatile matter)

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter [%] 68 - 72
(1 h; 125 °C; 2 g)

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 1,07
approx.
(20 °C)

Flash Point DIN EN ISO 1523

flash point [°C] 27
approx.

COMPATIBILITY

% Vialkyd AN 950	90	75	50	25	10
% other binder	10	25	50	75	90

Alkyd resins

Vialkyd AM 424 ● ● ● ● ●

Silicone modified polyester resins

Vialkyd VTS 1202 ● ● ● ● ●

Acrylic resins

Macrynal SM 510 ● ● ● ● ●

Other binders

Beckopox EP 301 ● ● ● ● ●

nitrocellulose 24 E ● ● ● ● ●

● = definite compatibility

○ = very limited or no compatibility

SUGGESTED USES

Spray coatings, stove cured

Vialkyd AN 950/70X is formulated with reactive melamine resins for coating systems for motor vehicles, household appliances, street signs, lighting fixtures as well as heaters or other components subjected to continuous heat load.

Vialkyd AN 950 can be crosslinked with melamine resin in ratios of 70 : 30 to 80 : 20 (alkyd resin : melamine resin). The curing schedule is 30 minutes at 120 - 140 °C.

Two-component systems

Vialkyd AN 950/70X (OH-value ca. 100 on solid resin) can be crosslinked with polyisocyanates such as Desmodur N (Bayer). Such systems can also be combined with hydroxy functional acrylic resins such as Macrynal SM 510.

Physical curing coating systems

In combination with thermoplastic film formers such as nitrocellulose and cellulose acetobutyrate it can be used for physical curing coating systems. Compatibility with the selected film former should first be investigated.

PROCESSING

Pigmentation

Vialkyd AN 950 has excellent pigment wetting properties with common used pigments for decorative systems so that it can be used as milling base for master batches.

Dilution

Aromatic hydrocarbons can be used for reduction when sufficient polar solvents such as ethoxypropyl acetate or methoxy propanol are also used.

Flow

When roller coated or sprayed the surface flow can be improved by adding 0.5 - 1 % Additol XL 122 or 0.3 - 5 % Additol XL 480 on total solid resin.

STORAGE

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

DISTINGUISHING FEATURES

For roller coated coil-coating systems Vialkyd AN 950/60SNBBG (in solvent naphtha 180/210 / butyl glycol) is recommended.