

TYPE

Styrene modified alkyd resin

FORM OF DELIVERY (f.o.d.)

70 % in xylene (70X)

SPECIAL PROPERTIES AND USE

Low viscosity.
Quick drying.
Excellent pigment wetting.

High gloss finishes.
Air-drying hammer finishes, anticorrosive primers, industrial paints.

RESIN COMPOSITION

(approx.)

38 % special fatty acids (as triglycerides)
12 % phthalic anhydride
40 % styrene

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	135 - 310
50 % xylene		
(25 1/s; 23 °C)		

Iodine Colour Number DIN 6162

iodine colour number		<= 10
50 % xylene		

Acid Value DIN EN ISO 2114

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

Non-Volatile Matter DIN 55671

non-volatile matter	[%]	68 - 72
(120 °C; 5 min)		

Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

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

Density (Liquids) DIN EN ISO 2811-2

density	[g/cm³]	0,98
approx.		
(20 °C)		

Flash Point DIN EN ISO 1523

flash point	[°C]	28
approx.		

DILUTABILITY

special white spirit 80/120	⊙	methyl isobutyl ketone	●
white spirit	●	butyl acetate	●
turpentine oil	●	methoxypropyl acetate	●
xylene	●	methoxypropanol	●
Shellsol AB	●	ethanol	○
acetone	●	butanol	⊙

● = unlimited dilutability
⊙ = substantial dilutability

⊙ = limited dilutability
○ = very limited or no dilutability

COMPATIBILITY

% Vialkyd AV 384	90	75	50	25	10
% other binder	10	25	50	75	90

Alkyd resins

Vialkyd AM 342	○	○	○	○	●
Vialkyd AF 724, AL 670m	○	○	○	○	○
Vialkyd AV 352m, AV 352h, AV 462	●	○	○	○	○
Vialkyd AY 402	●	●	●	○	○
Vialkyd AY 412	○	○	○	●	●
Vialkyd AY 472	●	○	○	○	○

Other binders

Alpex CK 450	○	○	○	○	●
nitrocellulose 24 E	○	○	○	○	○

● = definite compatibility

○ = very limited or no compatibility

SUGGESTED USES

Vialkyd AV 384 is used for the production of hammer finishes. Other possibilities of use are anticorrosive-primers, industrial paints and paints for cement.

Hammer finishes

By its special composition, Vialkyd AV 384 obtains the necessary properties of hammer finishes. Hammer finishes, produced by the specific formulation and completed with some current additive, show the distinctive special hammer finishes effect and excellent gloss.

Anticorrosive primers

Vialkyd AV 384 is easy compatible to anticorrosive pigments, e.g. zinc chromate, and so suitable for excellent anticorrosion primers. It is also possible to produce zinc chromate-free primers based on zinc phosphate. Primers on the base of Vialkyd AV 384 show rapid drying, good overcoatability, high corrosion resistance, and good storage stability.

Industrial paints

In spite of its high content of styrene, Vialkyd AV 384 has an excellent wetting of pigments and it is adapted for the production of brilliant industrial paints. The low viscosity of the binder causes high builds of the paints. Besides, the films are resistant to water and petrol. The resistance of cement paints, produced with Vialkyd AV 384, to alkali is extraordinary.

PROCESSING

As driers are recommended 0.05 %, cobalt, 0.5 % lead and 0.1 % calcium (metal on solid resin). Lead-free siccations (e.g. based on zirconium driers) are possible but must be tested thoroughly. Additol XL 297 is efficient as antiskinning agent.

STORAGE

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

DISTINGUISHING FEATURES

Vialkyd AV 384 differs in its low viscosity from other styrene modified alkyd resins, as Vialkyd AV 352m and AV 352h. Initial and through drying of Vialkyd AV 384 are ranged between those of Vialkyd AV 352m and Vialkyd AV 462.