

TYPE

Oxidatively drying alkyd resin as aqueous emulsion, free of amines and ammonia

FORM OF DELIVERY (f.o.d.)

60 % in water (60WA), partially neutralized

Content of fatty acids

approx. 40 % special fatty acids (as triglycerides)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	200 - 800
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pH-Value DIN ISO 976

pH-value (10 %)		5,5 - 8,0
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Non-Volatile Matter DIN 55671

non-volatile matter (120 °C; 5 min)	[%]	58 - 62
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Not continually determined:

Colour / Appearance VLN 250

colour		white
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	58 - 62
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,07
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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SPECIAL PROPERTIES AND USE

Resydrol VAF 6111w comes without any organic solvents or amines. Stabilisation is reached by a special alkylphenolethoxylate-free carrier resin.

COMPATIBILITY

Resydrol VAF 6111w can be easily combined with other Resydrol binders, for example Resydrol AY 586w and Resydrol AY 430w, even for high gloss paints. Joint usage of Resydrol AY 548wtix gives thixotropic properties. Resydrol VAF 6111w can also be combined with acrylic emulsions, for example Mowilith® LDM 7451, however the compatibility should be tested carefully in advance.

APPLICATION

Resydrol VAF 6111w is not stable against high shear rates (3500 rpm) which are needed for the production of paints by pearl-mill for high gloss top coats. As dispersing additives we recommend Additol VXW 6208 or EFKA 4550.

Resydrol VAF 6111w is especially suitable for waterborne flat, semi gloss and high gloss paints for wood, walls and ceilings. Paints based on Resydrol VAF 6111w show low yellowing (also in the darkness) and a very good compromise between drying and open time.

Resydrol VAF 6111w can also be used for the production of solvent-free unpigmented and also pigmented wood stains, by using water dilutable Luconyl® (BASF), Disperfin® (Brockhues) or Napronyl® (Clariant) colour pastes. On special woods, for instance oak and tropical woods like mahagoni, the drying rate may be delayed and discolouring may occur. For Resydrol VAF 6111w only water emulsifiable driers, preferably the alkylphenolethoxylate-free Additol VXW 6206, should be used. The usage of about 2 - 3 % drier, calculated on solid resin, is recommendable.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 days.

It is important to protect Resydrol VAF 6111w from frost; at low temperatures it has therefore to be stored under frostproof conditions.

Lowest storage temperature: - 2 °C

During storage Resydrol VAF 6111w/60WA tends to form a concentration gradient with an increasing solid content at the bottom, mostly accompanied by the formation of a water film at the surface. This is typical for this resin and not a quality defect.

It is recommended to always use whole containers or barrels. Homogenisation before use is generally recommended and essentially necessary when having partial withdrawals.

DISTINGUISHING FEATURES

Resydrol VAF 6111w is especially suitable for pigmented paints and as combination partner with other w/b binders. Resydrol VAF 6111w shows less yellowing and better drying than Resydrol VAS 6110w.