

TYPE

Oxidatively drying, ammonia neutralized Acryl-Alkyd-Hybrid in aqueous emulsion form

Neutralization agent

0.1 % ammonia, as salt

FORM OF DELIVERY (f.o.d.)

45 % in water (45WA)

CONTENT OF FATTY ACIDS

approx. 15 % special vegetable fatty acids (as triglycerides)

SPECIAL PROPERTIES AND USE

Resydrol VAY 6278w/45WA is an aqueous Acryl-Alkyd-Hybrid without organic cosolvents. It also does not contain any alkylphenolethoxylates.

Resydrol VAY 6278w/45WA can be used as sole binder for decorative paints, wood stains and for industrial applications.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	70 - 500
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pH-Value DIN ISO 976

pH-value (10 %)		7,8 - 8,6
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Non-Volatile Matter DIN 55671

non-volatile matter (125 °C; 10 min)	[%]	43,5 - 46,5
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Colour / Appearance VLN 250

colour		whitish
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Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	43,5 - 46,5
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,03
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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PROCESSING

Only pigments with very little water-solubility should be used for the production of top coats and primers. Strongly basic pigments are not suitable and may lead to storage stability problems and gelling. Conventional titanium dioxide types (Rutil) without zinc oxide coating should give paints with good storage stability.

Best suitable grinding aggregates are pearl- or sandmills. Especially for the production of paints for high gloss top coats a binder-free pigment paste can be produced without the addition of organic solvents, for example by using Additol VXW 6208 (5 % on pigment).

On tannic acid rich woods, for instance oak or tropical woods like mahagoni, the drying rate may be delayed and the woods may be discoloured, although own tests on oak showed no discolouring or slow drying rates.

Since Resydrol VAY 6278w/45WA is highly acrylic modified, optimum drying rates can be achieved without using driers. Using optical brighteners like Tint Ayd 2018 (Daniel Products) leads to almost non yellowing top coats.

STORAGE

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

Synthetic resins containing water may freeze or get inhomogeneous at temperatures below 0 °C. By this the product will not suffer any damage, but the necessary regeneration requires extended heat treatment at 40 - 50 °C with continuous stirring. It is therefore recommended to ensure frostproof storage of such products.

Lowest storage temperature: - 3 °C

DISTINGUISHING FEATURES

In comparison to Resydrol AY 586w or Resydrol AY 430w, Resydrol VAY 6278w/45WA exhibits a better drying rate and much less yellowing. Additionally Resydrol VAY 6278w/45WA does not contain organic solvents and therefore is environmentally friendly and has a pleasant smell.