

RESYDROL[®] VAX 6050w/40WA

TYPE

Epoxide and acrylic modified alkyd resin in aqueous emulsion form

Neutralization agent

(as salt)

0.2 % ammonia

0.1 % N,N-dimethylethanolamine

FORM OF DELIVERY (f.o.d.)

40 % in water (40WA)
(containing also 3.1 % butyl glycol)

CONTENT OF FATTY ACIDS

approx. 32 % special, partly isomerized vegetable fatty acids (as triglycerides)

SPECIAL PROPERTIES

- Quick physically set-drying and curing
- High corrosion stability and excellent adhesion also after water immersion
- Good pigment wetting and shear stability

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	2000 - 6500
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pH-Value DIN ISO 976 pH-value (10 %)		8,2 - 9,2
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Non-Volatile Matter DIN 55671 non-volatile matter (120 °C; 5 min)	[%]	38,5 - 41,5
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Not continually determined:

Colour / Appearance VLN 250 colour appearance		whitish opaque
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Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 1 g)	[%]	38,5 - 41,5
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,03
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SUGGESTED USES

Resydrol VAX 6050w is suited for anticorrosive primers and industrial paints with high gloss and good yellowing stability.

RHEOLOGICAL BEHAVIOUR OF ALKYD RESIN EMULSIONS

Aqueous alkyd resin emulsions differ fundamentally from synthetic resins dissolved and diluted in organic solvents:

- Viscosity of aqueous alkyd resin emulsions is independent of the mean molar mass of the resins so that it is not possible to infer from their viscosity to the molecular weight of the resins.

- Aqueous alkyd resin emulsions are characterized by structural viscosity, which means that with increasing shear stress viscosity will decrease. The values measured are strongly dependent on measuring conditions, and viscosity data without indication of shear rates are not very useful.

- Viscosity of aqueous alkyd resin emulsions will be influenced by their respective pH value in the following way:
With increasing pH value viscosity will also increase. As during storage of alkyd resin emulsions their pH value will slowly decrease, a decrease of viscosity has also to be expected. By subsequent neutralization viscosity can again be raised to the original value.

- The dilution curve of aqueous alkyd resin emulsions displays a very steep descent. Any reduction of solid matter content therefore results in a much stronger reduction of viscosity than with synthetic resins dissolved in organic solvents.

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: - 5 °C

DISTINGUISHING FEATURES

Resydrol VAX 6050w exhibits based on its low oil length and its acrylic modification as hybrid system in comparison to Duroxyn VEF 4380w a quicker set- and trough drying at otherwise the same paint properties.

3.0/17.07.2013 (replaces all previous versions)

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