

RESYDROL[®] AZ 6185w/40WA

TYPE

Oxidatively drying, ammonia neutralised, acryl- and urethane modified (aliphatic) alkyd emulsion

Neutralisation agent

0.5 % ammonia, as salt

FORM OF DELIVERY (f.o.d.)

40 % in water (40WA)
(contains also 2.1 % butoxy propanol)

CONTENT OF FATTY ACIDS

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

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	200 - 1200
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pH-Value DIN ISO 976 pH-value (10 %)		8,0 - 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		light brown 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]	1,05
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Flash Point (CCCFP) ASTM D 6450 flash point	[°C]	> 94
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SPECIAL PROPERTIES AND USE

Resydrol AZ 6185w can be used as sole binder for paints, primers and wood-stains (interior).

We recommend Resydrol AZ 6185w especially for combinations with alkyd emulsions, for example Resydrol VAF 6111w, for interior and exterior applications for woodstains, (trim) paints and primers.

COMPATIBILITY

Resydrol AZ 6185w can be combined in any ratio with other Resydrol binders like Resydrol AY 586w, Resydrol AY 588w, Resydrol VAY 6100wsca, Resydrol VAF 6111w or Resydrol VAS 6110w.

Combinations with acrylic emulsion like Viacryl VSC 6279w, Ucecryl B 3022 or Mowilith LDM 7451 are possible, too.

PROCESSING

Resydrol AZ 6185w is stable against high shear rates (3500 rpm) which are needed for the production of paints by pearl-mill, however for high gloss top coats we recommend a paint formulation using a pigment paste. As dispersing additives we recommend Additol VXW 6208 or Disperbyk 190.

Resydrol AZ 6185w can also be used for the production of solvent-free pigmented wood stains, by using water dilutable Luconyl[®] (BASF), Disperfin[®] (Brockhues) or Napronyl[®] (Clariant) transparent iron oxide color pastes. Due to its oil length below 40% we recommend to use Resydrol AZ 6185w as sole binder in woodstains, paints and varnishes mainly for interior applications.

On special tannin rich woods, for instance oak and tropical woods like merbau or mahogany, the drying rate may be delayed and discolouring may occur.

For Resydrol AZ 6185w only water emulsifiable driers, preferably the alkylphenolethoxylate-free Additol VXW 6206, should be used. The usage of about 1% Additol VXW 6206, calculated on solid resin, is recommendable.

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 and/or separate at temperatures below 0 °C. However, this will not cause any damage to the product, but it will be necessary for extended heat treatment at 40 - 50 °C with continuous stirring for regeneration. It is therefore recommended to store in a "keep from freezing" environment.

Lowest storage temperature: - 5 °C

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