

PRELIMINARY PRODUCT INFORMATION

TYPE

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

FORM OF DELIVERY (f.o.d.)

42 % in water (42WA)
(containing also < 2 % butyl glycol)

DEVELOPMENT PRODUCT

This product is serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.

Neutralisation agent

2,4 % triethylamine, as salt

Content of fatty acids

approx. 44 % special vegetable fatty acids (as triglycerides)

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	400 - 2400
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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)	[%]	40,5 - 43,5
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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)	[%]	40,5 - 43,5
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Hydroxyl Value DIN EN ISO 4629 (VLN 283)

hydroxyl value (solid matter content; potentiometric)	[mg KOH/g]	60
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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 6191w can be used as sole binder for paints, primers (inclusive barrier primers) and wood-stains.

We recommend Resydrol AZ 6191w especially for combinations with alkyd emulsions, e. g. Resydrol VAF 6111w, for interior and exterior applications for woodstains, (trim) paints and primers.

COMPATIBILITY

Resydrol AZ 6191w 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 6191w 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. 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 6191w only water emulsifiable driers, preferably the alkylphenolethoxylate-free Additol VXW 6206, or the Cobalt-free combination drier Additol XW 6533 should be used. The usage of about 1 % Additol VXW 6206, calculated on solid resin, is recommendable.

STORAGE

At temperatures from 5 °C 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

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.