

TYPE

Air-drying, acrylic modified alkyd resin emulsion

Neutralization agent

0.6 % ammonia, as salt

FORM OF DELIVERY (f.o.d.)

45 % in water (45WA)
(containing also < 1 % n-butoxy propanol)

CONTENT OF FATTY ACIDS

approx. 33 % special vegetable fatty acids (as triglycerides)

SPECIAL PROPERTIES AND USES

Resydrol AY 6173w/45WA is designed for the production of air-drying, waterborne 1 pack primers. Primers based on this resin show quick drying, corrosion protection, good adhesion on various substrates and very good recoatability at any time.

Such paints show high built and mild odour.

Resydrol AY 6173w/45WA can also be used as sole binder or in combination with dispersions for the formulation of wood primers.

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	300 - 1500
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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)	[%]	43,5 - 46,5
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Not continually determined:

Colour / Appearance VLN 250

colour		light brown
appearance		opaque

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/cm ³]	1,05
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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DILUTABILITY

Resydrol AY 6173w/45WA can be diluted with deionized water as much as desired. The application viscosity of paints on this basis can therefore be adjusted with deionized water alone, not requiring the additional use of organic solvents.

PROCESSING

Addition of driers

Water-emulsifiable driers such as Additol VXW 4940 N or cobalt free, Additol dry CF100, have to be used for this purpose. Additions of 2 - 5 % of this substance (referred to the amount of solid binder) are recommended. In order to ensure homogeneous distribution in the paint, these driers should be diluted with deionized water at a ratio of 1 : 1 before being added. Optimum incorporation is to be expected when the drier is added to the material before grinding.

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: - 2 °C

DISTINGUISHING FEATURES

Paints based on Resydrol AY 6173w/45WA have quick drying and similar salt spray resistance as solventborne alkyds.