

RESYDROL[®] AY 6705w/44WA

TYPE

Oxidatively drying acrylic modified alkyd resin as aqueous emulsion

Neutralization agent

0.35 % ammonia, as salt

FORM OF DELIVERY (f.o.d.)

44 % in water (44WA)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	100 - 1000
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pH-Value DIN ISO 976 pH-value (10 %)		7,5 - 9,5
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Non-Volatile Matter DIN 55671 non-volatile matter (120 °C; 5 min)	[%]	42,5 - 45,5
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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)	[%]	42,5 - 45,5
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,03
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Flash Point (CCCFP) ASTM D 6450 flash point	[°C]	> 94
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SPECIAL PROPERTIES AND USE

Resydrol AY 6705w/44WA is an acrylic modified alkyd emulsion which can be used alone or in combination with other w/b resins for decorative paints, exterior wood stains and industrial finishes.

COMPATIBILITY

Combination with other w/b binders is possible. Addition of Resydrol AY 548wtix yields thixotropic paints.

PROCESSING

For the formulation of decorative paints only pigments with low content of water-soluble components should be used. Strong basic pigments are not suited. They tend to cause gelling and problems with storage stability, which has to be carefully tested before using such basic pigments. Current rutile type grades of titanium dioxide without zinc oxide coating normally yield paints of good storage stability.

Especially for the production of paints for high gloss top coats a binder-free pigment paste should be produced without the addition of organic solvents, for example by using Additol VXW 6208 (5 % on pigment).

With Resydrol AY 6705w/44WA only water-emulsifiable driers such as Additol VXW 4940, VXW 4940 N, VXW 6206, or the cobalt-free XW 6533 can be used. Addition of 1.5 - 2 % of driers, referred to solids content, is recommended, however especially for the formulation of pigmented paints normally the addition of antiskinning agent and driers can be omitted without negatively effecting the drying properties.

Certain types of wood of high tannin content (e. g. oak or red cedar) may cause colour changes. Previous testing is therefore recommended when clear varnishes or wood stains are applied.

STORAGE RESYDROL AY 6705w/44WA

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 normally 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

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