

# RESYDROL<sup>®</sup> AY 6150waf/45WA

## PRELIMINARY PRODUCT INFORMATION

### TYPE

Air-drying, acrylic modified alkyd resin emulsion

### FORM OF DELIVERY (f.o.d.)

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

## 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.

### Neutralization agent

0.6 % ammonia, as salt

## CONTENT OF FATTY ACIDS

approx. 35 % 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]	300 - 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)	[%]	43,5 - 46,5
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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)	[%]	43,5 - 46,5
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GC - BTEX - Determination according to DIN 38407-9 BTEX	[ppm]	< 100
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm <sup>3</sup> ]	1,05
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Flash Point (Pensky-Martens) DIN EN ISO 2719 flash point	[°C]	> 100
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## SPECIAL PROPERTIES AND USES

Resydrol AY 6150waf/45WA is designed for the production of air-drying, waterborne 1 pack topcoats and monolayers. Paints based on this resin show quick drying, high gloss and corrosion protection, good adhesion on various substrates and very good recoatability at any time. With Resydrol AY 6150waf/45WA we can also formulate multipurpose primers. Such paints show high built and mild odour.

Resydrol AY 6150waf/45WA can also be used as sole binder or in combination with dispersions for the formulation of wood stains, primers and paints.

## DILUTABILITY

Resydrol AY 6150waf/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, Borchers Dry VP 0347 Aqua, 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

Unlike standard grade Resydrol AY 6150w/45WA, which may contain residual trace amounts of aromatic co-solvents, Resydrol AY 6150waf/45WA is free of aromatics.

## 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.

2.0/07.04.2015 ( replaces 1.0/16.09.2014 )

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