

PRELIMINARY PRODUCT INFORMATION

TYPE

ADH and surfactant free, ammonia neutralized oil-modified acrylic multi-domain dispersion

FORM OF DELIVERY (f.o.d.)

50 % in water (50WA)

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

0.7 % ammonia, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	50 - 1000
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pH-Value DIN ISO 976

pH-value (10 %)		8,0 - 8,6
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Non-Volatile Matter DIN 55671

non-volatile matter (150 °C; 5 min)	[%]	48 - 52
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Not continually determined:

Colour / Appearance VLN 250

colour		colourless to beige
appearance		opaque

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,05
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Minimum Temperature of Film Formation DIN ISO 2115

minimum temp. of film form. approx.	[°C]	4
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Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 94
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SPECIAL PROPERTIES AND USE

Resydrol SF 8011W/50WA is an aqueous oil-modified multi-domain dispersion especially suitable as a sole binder for timber/ decking applications, wooden fences and sidings with excellent outdoor durability, in warm climate regions. (Temperatures cycles > 0 °C)
Due to the harder backbone compared to Resydrol SF 8010W, it is recommended to blend Resydrol SF 8011W/50WA with a flexible, non-modified WB alkyd or oil components, to ensure sufficient flexibility at lower (< 0 °C) temperatures.

Resydrol VAL 5547w has been identified as a preferred blending partner, for all weather decking formulations. (Recommended blending ratio Resydrol SF 8011W / Resydrol VAL 5547w is 90 : 10, based on resin solids = no need for metal-based driers).

This unique modified acrylic dispersion with an overall balanced performance package, ensures an improved "controlled erosion" wear off, when used in timber decking applications.

Advantages:

- excellent chemical resistance and dirt pick up
- high abrasion resistance
- fast early water resistance
- perfect blend ability with soft non modified WB alkyds and oil components
- free of low molecular weight surfactants
- outstanding outdoor durability (sole binder and in blend)
- good adhesion properties on various wood substrates
- fast drying
- no need for metal-based driers
- good wood penetration, keeps the natural look of the wood.
- oily & glossy look
- low VOC formulations

COMPATIBILITY

Resydrol SF 8011W/50WA has good compatibility with other anionic and non-ionic WB binders. It has very limited compatibility with modified WB alkyds.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

It is important to protect Resydrol SF 8011W/50WA from freezing; at low temperatures it should be stored under "keep from freezing" conditions.

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.