

RESYDROL[®] AY 5557w/35WA

PRELIMINARY PRODUCT INFORMATION

TYPE

Acrylic modified, oil-free, saturated polyester resin in aqueous emulsion with incorporated catalyst, free of organic co-solvents

FORM OF DELIVERY (f.o.d.)

35 % in water (35WA)

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

3.3 % N.N-dimethylethanolamine, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219
dynamic viscosity [mPa.s] 300 - 2000
(10 1/s; 23 °C)

pH-Value DIN ISO 976
pH-value 7,5 - 9,0
adjustment of pH value with N.N-dimethylethanolamine
(10 %)

Non-Volatile Matter DIN EN ISO 3251
non-volatile matter [%] 34 - 36
(1 h; 125 °C; 1 g)

Not continually determined:

Colour / Appearance VLN 250
colour pale yellow
appearance opaque

Density (Liquids) DIN EN ISO 2811-2
density [g/cm³] 1,05
approx.
(20 °C)

Flash Point (CCCFP) ASTM D 6450
flash point [°C] >95

SPECIAL PROPERTIES AND USE

Resydrol AY 5557w is outstanding suited for the production of waterborne high-quality white and coloured one-coat finishes or top coats with good weathering resistance for industrial applications (machines, instruments). For film formation Resydrol AY 5557w must be crosslinked with amino resins suitable for aqueous systems. Preferred are hexamethoxymethylmelamine grades, like Cymel 303 LF. Stoved coatings stand out because of their high film hardness balanced with extraordinary good flexibility, as well as excellent water and solvent resistance. The adhesion to substrates like iron, aluminium, brass, copper and to galvanized surfaces is very good.

Minimum stoving condition: 140 °C for 30 minutes

Excellent paint stability.

Recommended pH-range: 7.8 - 8.5

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 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: - 3 °C

DISTINGUISHING FEATURES

In contrast to Resydrol AY 5537w/35WA, which also contains approx. 5.2 % methoxy propoxy propanol, Resydrol AY 5557w/35WA is almost free of organic cosolvents.

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.

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