

RESYDROL[®] AZ 6620w/36WA

PRELIMINARY PRODUCT INFORMATION

TYPE

Waterborne, urethane modified alkyd resin

FORM OF DELIVERY (f.o.d.)

36 % in water (36WA)
(containing also 2 % methoxy propoxy propanol)

Neutralization agent

approx. 1.0 % N.N-dimethylethanolamine, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	100 - 800
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pH-Value DIN ISO 976 pH-value adjustment of pH value with N.N-dimethylethanolamine (10 %)		6,5 - 7,5
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Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 1 g)	[%]	35 - 37
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Not continually determined:

Colour / Appearance VLN 250 colour appearance		brown opaque
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,06
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Flash Point (Pensky-Martens) DIN EN ISO 2719 flash point	[°C]	>100
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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.

SPECIAL PROPERTIES AND USE

Resydrol AZ 6620w/36WA in combination with watersoluble melamine resins (preferably hexamethoxy methylmelamine grades) is recommended for low bake (e. g. 20 min / 130 °C) waterborne stoving enamels providing properties like:

- very high film hardness in conjunction with high film elasticity
- very good gloss
- excellent chemical resistance
- excellent adhesion to steel or CED primers
- very good stone chipping resistance

According to our knowledge optimum results are obtained by blending 80 parts Resydrol AZ 6620w and 20 parts melamine resin (e.g. Cymel 303). Use of catalysts - even at low stoving temperatures - is **NOT RECOMMENDED** as they result in brittle coatings.

Stoving: 130 - 190 °C

IMPORTANT: Viscosity of Resydrol AZ 6620w and of enamels containing this grade is strongly increased by adding amines (= higher pH-value).

RECOMMENDED ADDITIVES

Additol VXW 4971: leveling- and wetting agent
Additol VXW 4926: antifoaming agent
Additol VXW 6500: De-aerator

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

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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