RESYDROL® AN 6618w/42WA

PRELIMINARY PRODUCT INFORMATION

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.

TYPE

Waterborne, oil free Polyester

FORM OF DELIVERY (f.o.d.)

42 % in water (42WA)

Neutralization agent

1,3 % N,N-Dimethylethanolamin, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (10 1/s; 23 °C)	[mPa.s]	10 - 1000
pH-Value DIN ISO 976		
pH-value (10 %)		7,0 - 8,5
Non-Volatile Matter DIN EN ISO 3251		
non-volatile matter (1 h; 125 °C; 1 g)	[%]	40,5 - 43,5

Not continually determined:

Colour / Appearance VLN 250		
colour		cless-lightyell
appearance		opaque
Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,07
Flash Point (Pensky-Martens) DIN EN ISO 2719		
flash point	[°C]	> 100

SPECIAL PROPERTIES AND USE

RESYDROL AN 6618w/42WA is a waterborne polyester, which is recommended for stoving top coats and Coil Coating systems. For film formation RESYDROL AN 6618w/42WA has to be combined with melamine-formaldehyde resins (Polyester / amino resin proportion approx. 70:30 on solid content).

Stoving conditions for lacquers with RESYDROL AN 6618w/42WA are from 20 min / 120 °C (with Cymel 323 and 30 min 140 °C (with Cymel 303)., Over 150 °C, we can add a catalyst, like Cycat VXK 6357.

Coatings based on RESYDROL AN 6618w/42WA are remarkable for their excellent adhesion on different metals; outstanding pigment wetting and gloss, for high film thickness; excellent mechanical properties and good yellowing resistance even at high curing temperatures.

IMPORTANT: Addition of amines to RESYDROL AN 6618w/42WA causes strong viscosity increase. To adjust pH-value or viscosity of this resin or paints thereof, the use of a 20 % solution of Dimethylethanamine in water is recommended.

COMPATIBILITY

RESYDROL AN 6618w/42WA is very good compatible with water-thinnable melamine resin types.
Further combinations, e. g. with acrylic resins are also possible but require testing of compatibility in every individual case.

RECOMMENDED ADDITIVES

ADDITOL XW 390 (Flow and wetting agent)
ADITOL VXW 6374 (pigment wetting)
ADDITOL VXW 6208 (Dispersing additive)
CYCAT VXK 6357 (Catalyst)

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 90 days.

Synthetic resins containing water may freeze and/or separate at temperatures below 0 °C. However, this will not cause any damage to the product, but it will be necessary for extended heat treatment at 40 - 50 °C with continuous stirring for regeneration. It is therefore recommended to store in a "keep from freezing" environment.

Lowest storage temperature: 0 °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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