

PRELIMINARY PRODUCT INFORMATION

TYPE

Watermiscible, oil free polyester

FORM OF DELIVERY (f.o.d.)

70 % in butyl glycol (70BG), with amin neutralized

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

2,1 % N,N-Dimethylethanolamin, as salt

TENTATIVE PRODUCT DATA

Determined per batch:

Colour / Appearance VLN 250

colour	yellow
appearance	clear

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	6000 - 11000
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	68 - 72
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Not continually determined:

Density (Liquids) DIN EN ISO 2811-2

density (20 °C)	[g/cm³]	1,06 - 1,12
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Flash Point (CCCFP) ASTM D 6450

flash point approx.	[°C]	71
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SPECIAL PROPERTIES AND USE

Resydrol AN 6618w/70BG is a waterborne polyester, which is recommended for stoving systems for generally industrial coatings and Coil Coating systems. As crosslinker the resin is usually combined with melamine formaldehyde resins (polyester/amino resin proportion approx. 70:30, on solids). The resin is already watermiscible in form of delivery and may be diluted with water during paint manufacturing.

Coatings based on Resydrol AN 6618w/70BG are remarkable for their excellent adhesion on different metals, for outstanding pigment wetting and gloss, for excellent mechanical properties and good yellowing resistance even at high curing temperatures.

Stoving conditions for lacquers with Resydrol AN 6618w/70BG are in example:

with Cymel 303 LF + Cycat VXK 6395:
from 20 min 140 °C object temperature or
30 s 220 °C PMT in Coil Coating application
with Cymel 323 + Cycat VXK 6395:
from 10 min 120 °C object temperature

COMPATIBILITY

Resydrol AN 6618w/70BG 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)
Additol VXW 6374 (pigment wetting)
Additol VXW 6208 (dispersing additive)
Cycat VXK 6395 or Cycat VXK 6357 (catalysts)

STORAGE

At temperatures up to 30 °C storage stability packed in original containers amounts to at least 365 days.

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.