

TYPE

Water dilutable, fatty acid modified epoxy resin ester

Neutralization agent

6,5 % N,N-dimethylethanolamine, as salt

FORM OF DELIVERY (f.o.d.)

75 % in ethoxypropanol (75EP)
(containing also 6 % butyl glycol)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	300 - 700
50 % propylene glycol monomethyl ether (25 1/s; 23 °C)		

pH-Value DIN ISO 976

pH-value		7,0 - 8,5
(10 %)		

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter	[%]	74 - 78
(1 h; 125 °C; 1 g)		

Not continually determined:

Colour / Appearance VLN 250

colour		brown
appearance		clear

Density (Liquids) DIN EN ISO 2811-2

density	[g/cm ³]	1,09
approx. (20 °C)		

Flash Point DIN EN ISO 1523

flash point	[°C]	46
approx.		

SPECIAL PROPERTIES AND USE

Excellent pigment wetting, high corrosion protection, very good reactivity with melamine resins.
As combination partner for stoving systems to increase reactivity and improve corrosion protection.

COMPATIBILITY

Resydrol AX 250w is compatible with Resydrol AF 502w and with Resydrol AX 906w. Compatibility with other stoving water-soluble resins must first be tested.

SUGGESTED USES

For film formation Resydrol AX 250w must be crosslinked with amino resins suitable for aqueous systems. Hexamethoxymethylmelamine resins are recommended.

The stoving range is 130 - 180 °C.

The use of Resydrol AX 250w in stoving systems helps improve reactivity and corrosion protection as well as adhesion.

PROCESSING

Resydrol AX 250w requires melamine resins suited for waterborne systems for curing. Recommended are hexamethoxymethylmelamine resins in ratio of 90 : 10 to 75 : 25 on solid resin.

Adjustment of pH value

If adjustment of the pH value is required, this is best done with dimethylethanolamine.

Pigmentation

Resydrol AX 250w has very good pigment wetting properties and can be processed with all pigments and fillers suitable for water-soluble systems. The use of strong basic pigments should be avoided since they tend to gellation. TiO₂ grades modified with zinc oxide should not be used. The use of active anticorrosive pigments should first be carefully tested.

For pigment dispersing sand or pearl mills are best suited. The milling temperature should not exceed 50 °C. Paints on the basis of Resydrol AX 250w show very good storage stability if the recommended pH range (preferably 8.0 - 8.5) is carefully observed.

Dilution

Preferably with deionized water. Simultaneous use of solvents (e. g. glycol ether) is possible.

STORAGE

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

DISTINGUISHING FEATURES

Compared with Resydrol AX 246w and Resydrol AX 906w Resydrol AX 250w/75EP has a higher epoxy resin content and less film flexibility.