

# RESYDROL<sup>®</sup> AY 498w/35WA

## TYPE

Oxidatively drying, solventfree binder, neutralized, in aqueous emulsion form, nearly unsaponifiable

## Neutralization agent

3.7 % triethylamine, as salt

## FORM OF DELIVERY (f.o.d.)

35 % in water (35WA)

## PRODUCT DATA

### Determined per batch:

#### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 100 - 1100  
(25 1/s; 23 °C)

#### pH-Value DIN ISO 976

pH-value 7,0 - 9,5  
(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 yellow-brown  
appearance opaque

#### Density (Liquids) DIN EN ISO 2811-2

density [g/cm<sup>3</sup>] 1,00  
approx.  
(20 °C)

#### Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point [°C] > 100

## SPECIAL PROPERTIES

Resydrol AY 498w is without organic co-solvents and may be diluted indefinitely with water. Resydrol AY 498w is distinguished by following characteristic properties:

- Extremely quick set-drying.
- Exceptionally high film-hardness.
- Excellent adhesion on iron and non-ferrous metals.
- Good re-coatability, e.g. with alkyd-melamine baking paints or powder coatings.

## SUGGESTED USES

You may formulate with Resydrol AY 498w air-drying as well as forced heat-drying primers or primer surfacers which exhibit a very quick set-drying and even after a short time an unusually high film-hardness.

Because of the good adhesive properties on various metal substrates formulations on the basis of Resydrol AY 498w may also be used as aqueous wash-primers. They can at any time be recoated with various coating systems, like water-borne or conventional baking and air-drying paints, without problem. In this connection we must point out the good adhesion after baking of powder coatings on primers based on Resydrol AY 498w.

## PROCESSING

Resydrol AY 498w exhibits a good pigment wetting and can be processed for the production of anticorrosive primers with basic pigments like Shieldex AC 3 (from Grace GmbH). However it is recommendable to take the whole quantity of Resydrol AY 498w and disperse it with the pigments and additives according to the formulation.

We suggest as milling aggregate an attritor. The mill base temperature of 50 °C should not be surpassed because of a possible loss of amine. The pH-value must be checked after grinding and adjusted if necessary with triethyl amine or ammonia to between 8.8 and 9.2.

For emulsions in principle only wateremulsifiable driers like Additol VWX 4940 should be used. In order to grant a homogenous distribution the mentioned siccative should be diluted before adding with deionized water 1 : 1 and thus be added to the mill base.

For the coating of newly galvanized sheet iron it is recommended to apply with a paint viscosity of approx. 50 - 70 s. DIN EN ISO 2431, 5 mm, 23 °C.

## STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 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 comparison to other air-drying Resydrol-types Resydrol AY 498w/35WA exhibits the quickest drying as well as best adhesion on galvanized sheet iron. Primers on the basis of Resydrol AY 498w can be best re-coated with powder coatings.

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