

RESYDROL[®] AM 410w/66BPWA

TYPE

Waterdilutable bisphenol resol carboxylic acid (waterdilutable, plastified phenolic resin)

Neutralization agent

8.7 % triethyl amine, as salt

FORM OF DELIVERY (f.o.d.)

66 % in butoxy propanol / water (66BPWA)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity 50% WA (25 1/s; 23 °C)	[mPa.s]	1500 - 2500
---	---------	-------------

pH-Value DIN ISO 976 pH-value (10 %)		7,0 - 8,0
--	--	-----------

Non-Volatile Matter DIN EN ISO 3251 non-volatile matter (1 h; 125 °C; 1 g)	[%]	64 - 68
--	-----	---------

Not continually determined:

Colour / Appearance VLN 250 colour appearance		brown clear
---	--	----------------

Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm ³]	1,07
--	----------------------	------

Flash Point DIN EN ISO 1523 flash point approx.	[°C]	63
---	------	----

SPECIAL PROPERTIES

- Excellent adhesion resistance.
- Superior flexibility and corrosion resistance.
- Excellent hardness.

SUGGESTED USES

Resydrol AM 410w is designed as sole binder for stoving primers and finishes. Resydrol AM 410w is a valuable binder for dipping and flow coating paints. For increased hardness combinations with hexamethoxymethylmelamine resins are possible.

For optimum performance we recommend a minimum stoving temperature of 170 °C, preferably 30 - 15 min / 170 - 190 °C. At these relatively high temperatures, however, Resydrol AM 410w shows considerable yellowing. Primers for industrial series production are the main outlet for Resydrol AM 410w. They afford superior ease of processing. Films cured according to the recommended schedule exhibit great hardness balanced with flexibility, excellent adhesion to the various grades of steel and non-ferrous metals and excellent corrosion resistance.

DILUTABILITY

Resydrol AM 410w can be diluted preferably with deionized water. Water tolerant solvents such as low alcohols, ether alcohols, ester alcohols, ketone alcohols, etc. can be coemployed. Compatibility with higher alcohols, esters and ketones is limited. Therefore, solvents should be used upon individual tests.

Water solubility is linked to a minimum pH value of over 7.5. On longer storage the pH value can decrease. It should be checked and readjusted with triethyl amine or other organic amines (maximum pH value 8.5).

COMPATIBILITY

Resydrol AM 410w has limited compatibility with other water-dilutable resins. In general this can be neglected since the resin is designed to be a sole binder. The selection of pigments and extenders is governed by the restriction applying to water-dilutable heat curing resins. Resydrol AM 410w is not compatible with truly basic pigments. Pigments and extenders sensitive to alkali and such rich in electrolytes are not recommended.

PROCESSING

Pigmentation

Normal pigments and extenders except strongly basic ones and those containing a large amount of electrolytes can be used, among them titanium dioxide, iron oxides, lithopone with low zinc oxide content, carbon black, calcinated China clays, barium sulfates, calcium carbonate, micronized talcum.

Dilution

Water-tolerant solvents should be coemployed along with deionized water in order to obtain a sufficiently high solids content of the paint at application viscosity. Sec-butanol is particularly suitable to cut the viscosity. In dipping or flow coating paints higher levels may be necessary, coemploying glycol ethers or diglycol ethers. For final adjustment of supply or application viscosity, deionized water should be the only solvent.

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.

DISTINGUISHING FEATURES

Resydrol AM 410w/66BPWA contains the neutralizing agent triethyl amine and as organic solvent butoxy propanol, while Resydrol AM 410w/67WABG and Resydrol AM 410w/67WABP are neutralized with ammonia.

4.0/17.07.2013 (replaces all previous versions)

• Worldwide Contact Info: www.allnex.com •

Disclaimer: Allnex Group companies ("Allnex") decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents Allnex's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of Allnex or of any third party. The information relating to the products is given for information purposes only. No guarantee or warranty is provided that the product and/or information is adapted for any specific use, performance or result and that product and/or information do not infringe any Allnex and/or third party intellectual property rights. The user should perform its own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights of Allnex and/or third parties remains the sole responsibility of the user.

© 2013 Allnex Belgium SA. All Rights Reserved

Notice: Trademarks indicated with the ®, ™ or * are registered, unregistered or pending trademarks of Allnex Belgium SA or its directly or indirectly affiliated Allnex Group companies.