

TECHNICAL DATA SHEET

SYNOCURE® 9291 BA 75 MY

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 9291 BA 75 MY is a high solid hydroxy functional acrylic resin designed to crosslink at room temperature with polyisocyanates.

SYNOCURE® 9291 BA 75 MY is particularly well suited for use in high quality industrial coatings top coat and clear coat. SYNOCURE® 9291 BA 75 MY has good resistance properties to solvents and chemicals and to exposure to weather and UV light, making it suitable for high quality anti-corrosive protection and for long life heavy duty coating.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	74 - 76	ISO 3251
Viscosity (25°C, mPa.s)	4000 - 7500	ISO 3219
Color (Hazen)	50 max	ISO 6271
Acid value (mg KOH/g)	9 - 13	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate	-
Density (25°C, g/mL)	1.05	-
Hydroxyl content (%)	4.1	-
Hydroxyl equivalent weight	416	-

Acid value and/or Hydroxyl value quoted relative to solid resin

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
 - Ace
 - Automotive - Refinish
 - General Industry
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- VOC compliant
- Good durability
- High hardness and toughness
- Quick drying
- Scratch resistance: mar and car wash resistance

SYNOCURE® 9291 BA 75 MY

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 9291 BA 75 MY should be mixed with the selected polyisocyanate just prior to application. It is preferable to use stoichiometric ratios to obtain optimum performance.

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants.

The relationship is:

Hydroxyl Equivalent Weight = $(17 \times 100) / \%OH$

Isocyanate Equivalent Weight = $(42 \times 100) / \%NCO$

Using Tolonate™ HDB 75 series ⁽¹⁾, the recommended ratios would be:

- on solid resins: SYNOCURE® 9291 BA 75 MY/Tolonate™ HDB 75 series ⁽¹⁾ = 416/191

- as supplied: SYNOCURE® 9291 BA 75 MY/Tolonate™ HDB 75 series ⁽¹⁾ = 555/255

SYNOCURE® 9291 BA 75 MY reacted with Tolonate™ HDB 75 series ⁽¹⁾ or Desmodur® N 75 series ⁽²⁾ in stoichiometric proportions has a usable pot life in excess half of a working day at normal room temperatures. The use of catalysts or higher temperatures will reduce this usable period.

To increase the initial rate of cure of SYNOCURE® 9291 BA 75 MY paints, at both ambient temperatures and under low bake conditions, the use of tin or zinc catalysts in the form of dibutyl tin dilaurate or zinc octoate is recommended. The levels used will depend on specific requirements, but typical metal contents calculated on total solid resin would be 0.001% tin and 0.0015% zinc.

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9291 BA 75 MY should be free of water and should not contain groups which react with isocyanates. Esters and ketones are true solvents for this type of system and are usually used with aromatic hydrocarbon diluents.

Notes: ⁽¹⁾ VENCOREX® Chemicals, ⁽²⁾ Covestro

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 9291 BA 75 MY should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided.

In the above mentioned storage conditions the shelf life of the resin will be 12 months.

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