

TECHNICAL DATA SHEET

SYNOCURE® 878 N 60 MY

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 878 N 60 MY is a hydroxy functional acrylic resin designed to crosslink at room temperature with polyisocyanates.

SYNOCURE® 878 N 60 MY is particularly well suited for use in high quality industrial coatings. The excellent adhesion properties make the resin a good choice for primers, fillers and single coat paints for a variety of substrates. Steel, galvanised steel, aluminium, wood, plastic and minerals can all be coated satisfactorily using coatings based on SYNOCURE® 878 N 60 MY.

SYNOCURE® 878 N 60 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 decorative coatings, especially on structural steelwork.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	59 - 61	ISO 3251
Viscosity (25°C, mPa.s)	1900 - 2800	ISO 3219
Color (Hazen)	100 max	ISO 6271
Acid value (mg KOH/g)	5 - 10	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Aromatic naphta solvent 160 - 180°C (Aromatic 100)	-
Density (25°C, g/mL)	0.99	-
Hydroxyl content (%)	2.7	-
Hydroxyl equivalent weight	630	-

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
 - Automotive - Refinish
 - General Industry
 - Protective And Marine Coating
 - Wood Furniture

PERFORMANCE BENEFITS

- Excellent chemical and stain resistance
- Good durability
- Excellent adhesion
- Economy in use

SYNOCURE® 878 N 60 MY

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 878 N 60 MY should be mixed just prior to application with the selected polyisocyanate. The mixing ratio is not critical although 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⁾ or Desmodur® N 75 series ⁽²⁾, the recommended ratios would be:

- on solid resins: SYNOCURE® 878 N 60 MY/Tolonate™ HDB 75 series ⁽¹⁾ or Desmodur® N 75 series ⁽²⁾ = 630/191

- as supplied: SYNOCURE® 878 N 60 MY/Tolonate™ HDB 75 series ⁽¹⁾ or Desmodur® N 75 series ⁽²⁾ = 1050/255

SYNOCURE® 878 N 60 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® 878 N 60 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® 878 N 60 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® 878 N 60 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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Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

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