

SYNOCURE 878 N 60

Hydroxyl Functional Acrylic, 2.7% OH

Product Information

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

SYNOCURE 878 N 60 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, galvanized steel, aluminum, wood, plastic and minerals can all be coated satisfactorily using coatings based on **SYNOCURE 878 N 60**.

SYNOCURE 878 N 60 has particularly 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.

Systems based on this resin possess the following outstanding features:

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

Sales Specification

Non-volatile content at 125°C, % (ISO 3251)	59 – 61
Viscosity at 25°C, mPa.s (ISO 3219)	1,900 – 2,800
Colour, Hazen scale (ISO 6271)	max. 100
Acid value, mg KOH/g (ISO 2114)	5 - 10

Other Properties

Volatile	Aromatic hydrocarbon, boiling range 160° - 180°C
Density at 20°C, g/cm ³ (ISO 2811)	approx. 0.99
Hydroxyl content, %	approx. 2.7
Hydroxyl equivalent weight (on solid resin)	approx. 630

Noted: Acid value & hydroxyl value quoted relative to solid resin

Recommendations for Use

SYNOCURE 862 X 60 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.

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Recommendations for Use

Using Tolonate HDB 75¹⁾ or Desmodur N 75²⁾, the recommended ratios would be:

	on solid resin	as supplied
SYNOCURE 878 N 60	630	1050
Tolonate HDB 75 ¹⁾	191	255
Desmodur N 75 ²⁾	191	255

SYNOCURE 878 N 60 reacted with Tolonate HDB 75¹⁾ or Desmodur N 75²⁾ in stoichiometric proportions has a usable pot life in excess of a full working day at normal room temperatures. The use of catalysts or higher temperatures will reduce this storage period.

To increase the initial rate of cure of **SYNOCURE 878 N 60** 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** should be free of water and should not contain groups that react with isocyanates. Esters and ketones are true solvents for this type of system and are recommended for use in conjunction with aromatic hydrocarbon diluents.

Notes: ¹⁾ Perstorp ²⁾ Bayer

Precautions for Use

Please refer to corresponding Safety Data Sheet.

Storage Recommendations

SYNOCURE 878 N 60 should be stored indoors in the original containers in a dry place at temperature between 5°C and 30°C. Avoid exposure to direct sunlight or frost.

Shelf Life

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



The world is our inspiration

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