

COATING RESINS

TECHNICAL DATA

SYNOCURE 867SD

SALES SPECIFICATION

Non-volatile content, % @ 150°C	55-59
Viscosity in CPS at 25°C	3000-5000
Colour, Gardner scale (ISO 4630)	≤ 1
Acid value, mg KOH/g (ISO 3682)	3 - 8

OTHER PROPERTIES

Volatile	Xylene / Methoxy Propyl Acetate (1:3)
Non-volatile content, % @ 150°C	58
Flash point, °C (ISO 3679)	23
Density at 20°C (ISO 2811)	1.02
Hydroxyl content, %	2.83
Hydroxyl equivalent weight	600

Note - Hydroxyl content quoted relative to solid resin

PRODUCT INFORMATION

SYNOCURE 867SD is a hydroxy lfunctional acrylic resin developed for use in compliant two component systems when cured with polyisocyanate.

SYNOCURE 867SD is recommended for the formulations which are crosslink at room temperature with polyisocyanate. and is particularly recommended where higher application solids and excellent exterior durability is required.

Characteristics of SYNOCURE 867SD based coatings include:

- Long Pot Life
- Excellent Drying Time
- Excellent all round performance
- Good hardness

RECOMMENDATIONS FOR USE:

REACTION RATIOS: SYNOCURE 867SD should be mixed with the selected polyisocyanate just prior to application. Stoichiometric mixing ratios are recommended to obtain optimum performance. Alternative ratios may be suitable for some applications, but should be evaluated by the coating formulator beforehand.

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

Equivalent weights: Hydroxyl EqW (EqW)	$\frac{17 \times 100}{\% \text{ OH}}$	Isocyanate EqW	$\frac{42 \times 100}{\% \text{ NCO}}$
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Conventional polyisocyanates such as Desmodur N75⁽¹⁾ and Tolonate HDB75MX⁽²⁾ can be used successfully

	on solid resin	as supplied
SYNOCURE 867SD	600	1000
N-75	191	255
AR-75	242	323

SOLVENTS: The solvents chosen for paints and lacquers based on SYNOCURE 867SD should be free of water and should not contain groups that react with isocyanates. Ester and Ketones are True solvents and aromatic hydrocarbons are used as a diluents for this system.

POT LIFE: SYNOCURE 867SD reacted with N-75 in stoichiometric proportions has a usable pot life at spraying viscosity in excess of a full working day at normal room temperature. The use of catalysts or higher temperatures will reduce this storage period, although paints will still remain usable for several hours.

CATALYSTS: To increase the initial rate of cure of SYNOCURE 867SD based paints, at both ambient temperature and under low bake conditions, the use of tin catalyst in the form of dibutyl tin dilaurate is strongly recommended. The level used will depend on specific requirements, but the recommended minimum level would be 0.001% tin calculated on total solid resin plus isocyanate.

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the resin in other ways should be discussed with Cray Valley before any action is taken.

Notes: N- 75 From Bayer
AR – 75 From CVRIPL (Aromatic Isocyanate)

SYNOCURE 867SD should only be used in applications consistent with the above recommendations. Proposals to use

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