SYNOCURE® 803X-65

content of the reactants.

ARKEMA COATING RESINS

Product SYNOCURE® 803X-65 is a hydroxyl functional acrylic resin developed for use in compliant two **Application details** component systems when cured with polyisocyanate.

Performance Benefits	Longer Pot Life Cood flowibility and bardness	
	Good flexibility and hardness	
	Good gloss	
	Good exterior durability	
	Good all round performance	
Polymer Type	Solvent borne Acrylic	
Sales Specifications	Non-volatile content at 125°C, % (ISO 3251)	63 - 67
	Viscosity in Poise at 25°C, Brookfield (ISO 3219)	150 - 200
	Colour, Gardner scale (ISO 4630)	1 Max
	Acid value, mg KOH/g (ISO 2114)	12 Max
	Viscosity in poise of 50% resin solution in xylene @25°C on Brookfield	10 – 15
Other Characteristics ¹	Volatile	Xylene
	Density at 25°C, g/cm3 (ISO 2811)	1.00
	Hydroxyl Content, %	2.40
	Hydroxyl Equivalent Weight	710
	Note: Acid value and/or Hydroxyl value and hydroxyl equivalent weight quoted relative to solid resin	
	1 The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications	
	RECOMMENDATIONS FOR USE	
Formulation Guidelines	SYNOCURE [®] 803X-65 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	



The relationship is:

Equivalent Weight (EgW): Hydroxyl EgW Isocyanate EgW

17x 100 % OH 42 x 100 % NCO

On Solids As Supplied

SYNOCURE[®] 803X-65 710 1090 DESMODUR N-75 191 255

SOLVENTS: The solvents chosen for paints and lacquers based on SYNOCURE 803X - 65 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 diluents.

POT LIFE: SYNOCURE 803X-65 reacted with Desmodur N75 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 803X-65 based paints, at both ambient temperature and under low bake conditions, the use of tin catalyst in the form of dibutyl tin dilaurate is 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. Notes: Desmodur N 75 from Bayer

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE[®] 803X-65 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.

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

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