SYNOCURE[®] 862X-55 IN

ARKEMA COATING RESINS

Product Application details	SYNOCURE [®] 862X-55 IN is a hydroxyl functional acrylic resin developed for use in compliant two component systems when cured with polyisocyanate. SYNOCURE [®] 862X-55 IN is recommended for the formulations, where economy in use is a major factor.				
Performance Benefits	 Fast drying High gloss Low isocyanate requirement Excellent hardening rate 				
Polymer Type	• So	olvent borne Acrylic			
	% Solid Content at 125°C, (ISO 3251, 1gm, 1h, 125°C)				53 - 57
Sales	Viscosity in Poise at 25°C, Brookfield Viscometer (ISO3219)				25 - 35
Specifications	Colour, Gardner scale (ISO 4630)				1 Max
	Acid value, mg KOH/g (ISO 2114)				10 Max
	Volatile				Xylene
	Flash point, °C (ISO 3679)				24
	Density / Specific Gravity at 20°C, g/ml (ISO 2811)				1.00
Other	Hydroxyl Content, %				1.55
Characteristics ¹	Hydroxyl Equivalent weight				1100
	Note: Acid value and/or Hydroxyl content 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				
Formulation Guidelines					
			on solid resin	as supplied	
		SYNOCURE [®] 862X-55 IN	1100	2000	
		Desmodur N- 75 (1)	191	255	
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To increase the initial rate of cure of SYNOCURE[®] 862X-55 IN based paints and varnishes, 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 will depend on the specific requirements but typical metal contents calculated on total solid resin would be 0.001% tin or 0.02% zinc.

The pot life of coatings based upon SYNOCURE[®] 862X-55 IN / Desmodur N 75 (1) in the recommended proportions gives a full working days use. Lacquers prepared at 23 seconds flow cup B4 at 30° C will double in viscosity after 30 hours. With a catalyst level of 0.001% tin on total solid resin this will be reduced to 10 hours. The catalyst used is dibutyl tin dilaurate

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE[®] 862X-55 IN should be free from water and not contain groups that react with isocyanates.

OTHER ADDITIVES

To optimize the performance of SYNOCURE[®] 862X-55 IN, when used in a clear varnish formulation, we recommend the use of Tinuvin[®] 900 (2) and Tinuvin[®] 292 (2) in a 2:1 ratio.

Notes: (1) Bayer, (2) Ciba

Product

Safety

Please refer to the corresponding Safety Data Sheet.

Storage & SYNOCURE[®] 862X-55 IN 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 conditions the shelf life of the resin will be 12 months from the date of manufacturing.

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