SYNOCURE[®] 868S-60 IN

ARKEMA COATING RESINS

Product Application details	SYNOCURE [®] 868S-60 IN is a hydroxyl functional acrylic resin developed for use in compliant two component systems when cured with polyisocyanate. SYNOCURE [®] 868S-60 IN is CAB compatible acrylic recommended for the formulations, which are cross-link at room temperature or force dried with poly isocyanate and is particularly recommended where highly flexible coating is required.					
Performance Benefits	• Exc	 Very high flexibility. Excellent all-round performance Excellent weatherability CAB compatibility 				
Polymer Type	Solvent borne Acrylic					
	Solid Content at 125°C, % (ISO 3251, 1gm, 1h, 125°C)				58 – 62	
Sales	Viscosity in Poise at 25°C, Brookfield Viscometer				30 - 50	
Specifications	Colour, Gardner scale (ISO 4630)				1 Max	
	Acid value, mg KOH/g (ISO 2114)				10 Max	
	Volatile Xylene/Cellosolve Acetate (3:1)					
		oint, °C (ISO 3679)	31			
		/ / Specific Gravity at 20°C,	1.02			
Other		yl Content, %	5,···· ()		2.10	
Characteristics ¹	Hydroxyl Equivalent weight				800	
	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					
	RECOMMENDATIONS FOR USE					
	SYNOCURE [®] 868S-60 IN should be mixed with the selected polyisocyanate just prior to application. 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: $17 \ge 100$					
	Hydroxyl equivalent weight = $\frac{1000}{\% \text{ OH}}$					
Formulation Guidelines	Isocyanate equivalent weight = $\frac{42 \times 100}{\% \text{ NCO}}$					
	Using Desmodur N-75(1), the recommended ratios would be:					
			on solid resin	as supplied		
		SYNOCURE [®] 868S-60 IN	800	1335		
		Desmodur N- 75 (1)	191	255		
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	To increase the initial rate of cure of SYNOCURE [®] 868S-60 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 [®] 868S-60 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
	<u>SOLUBILITY</u> The solvents chosen for paints and laquers based on SYNOCURE [®] 868S-60 IN should be free from water and not contain groups that react with isocyanates.
	<u>OTHER ADDITIVES</u> To optimize the performance of SYNOCURE [®] 868S-60 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 & Handling	SYNOCURE [®] 868S-60 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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