CRAY VALLEY

COATING RESINS

TECHNICAL DATA — SYNOCURE 570X

SALES SPECIFICATION

Non-volatile content, % @ 150°C	64-66
Viscosity in CPS at 25°C	5000-8000
Colour, Gardner scale (ISO 4630)	≤ 1
Acid value, mg KOH/g (ISO 3682)	≤10

OTHER PROPERTIES

Volatile	Xylene
Non-volatile content, % @ 150°C	65
Flash point, °C (ISO 3679)	24
Density at 20°C (ISO 2811)	1.02
Hydroxyl content, %	3.1
Hydroxyl equivalent weight	550

Note - Hydroxyl content quoted relative to solid resin

PRODUCT INFORMATION

SYNOCURE 570X is a hydroxy lfunctional acrylic resin developed for use in compliant two component systems when cured with polyisocyanate.
SYNOCURE 570X 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 570X based coatings include:

- Moderate Pot Life
- Excellent Drying Time
- Excellent exterior Durability

RECOMMENDATIONS FOR USE:

REACTION RATIOS: SYNOCURE 570X 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 $\frac{17 \times 100}{\%\ OH}$ Isocyanate EqW $\frac{42 \times 100}{\%\ NCO}$
(EqW)

Conventional polyisocyanates such as Desmodur N75 [(1)] and Desmodur N3390 can be used successfully

	on solid resin	as supplied
SYNOCURE 570X	550	786
Desmodur N3390	191	212
N- 75	191	255

SOLVENTS: The solvents chosen for paints and lacquers based on SYNOCURE 570X should be free of water and should not contain groups that react with isocyanates.

POT LIFE: SYNOCURE 570X reacted with N-75 or Desmodur N3390 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 570X 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.

SYNOCURE 570X should only be used in applications consistent with the above recommendations. Proposals to use the resin in other ways should be discussed with Cray Valley before any action is taken.

Notes: Desmodure 3390 From Bayer (90% solids)
N- 75 From Bayer

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