

# CRAY VALLEY

## COATING RESINS

### TECHNICAL DATA

### SYNOLAC 5065 S 65

#### SALES SPECIFICATION

#### OTHER PROPERTIES

Non-volatile content, % @ 150°C	63.5 – 66.5	Volatile	MPA
Typical reduced Viscosity ( 100gms of resin + 40gms of MPA) Cps @25°C	400	Flash point, °C	45
Viscosity, 25°C, Cps	12000-18000	Hydroxyl content	8
Maximum colour, Gardner scale (ISO 4630)	3 Max.	Hydroxyl value, mg KOH/g	264
Acid value, mg KOH/g (ISO 3682)	4 Max.	Density@ 20°C	1.15

Note: Hydroxyl value and Acid Value quoted relative to solid resin.

#### PRODUCT INFORMATION

**SYNOLAC 5065 S 65** is a highly branched, High hydroxyl saturated polyester resin recommended for the formulation of highly crosslinked and highly resistant 2 – component coatings. **SYNOLAC 5065 S 65** is a very versatile material suitable for applications such as anti-graffiti coatings, brushable coatings for wood and concrete, coil coating repairs, vehicle refinish coatings and marine topcoats. The high hydroxyl content gives resin a very rapid cure response and high scratch and abrasion resistant coatings can be produced using either aliphatic or aromatic isocyanates. Coatings will have high stain and chemical resistance as well as weathering resistance (Florida Exposure).

- High Hydroxyl
- Rapid cure
- High scratch and abrasion resistance
- Excellent stain and chemical resistance

#### RECOMMENDATIONS FOR USE :

**SYNOLAC 5065 S 65** will react with aromatic isocyanates such as Desmodur L<sup>(1)</sup> and with aliphatic isocyanates such as Tolonate HDB<sup>(2)</sup> or Desmodur N<sup>(1)</sup> at ambient temperatures. Addition of compounds such as dibutyl tin dilaurate<sup>(3)</sup> or zinc octoate<sup>(2)</sup> will catalyse the cure reaction. The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is

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Equivalent weights : Hydroxyl EqW                      Isocyanate EqW  
(EqW)                       $\frac{17 \times 100}{\%OH}$                        $\frac{42 \times 100}{\%NCO}$

Recommended ratios using typical isocyanates would be:

	On solid basis	On Solution Basis
5065 S 65	212.5	327
N-75	191	255
L-75	255	323

#### SOLUBILITY

Completely soluble in esters, ketones and alcohols; limited solubility in aromatic hydrocarbons; insoluble in aliphatic hydrocarbons.

**SYNOLAC 5065 S 65** 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.

- (1) Bayer
- (2) Rhone Poulenc
- (3) Akzo Chemicals, Albright & Wilson, Rhone Poulenc

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