

SYNOCURE® 9203 S 52

(FORMERLY E98003)

GENERAL INDUSTRY / PROTECTIVE & MARINE COATINGS

ARKEMA COATING RESINS

Product

SYNOCURE® 9203 S 52 is a hydroxy functional acrylic designed to crosslink at room temperature or under low-bake conditions (60°C-80°C) with aliphatic polyisocyanates.

Application details

SYNOCURE® 9203 S 52 is particularly recommended for use in vehicle refinishing, A.C.E. and transport coatings.

Performance Benefits

- Fast dry and good early hardness
- Good application properties
- Excellent mechanical properties
- Good weathering performance

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	51 - 54
Viscosity at 25°C, mPa.s (ISO 3219)	900 - 1400
Colour, Hazen scale (ISO 6271)	100 max
Acid value, mg KOH/g (ISO 2114)	4 - 10

Other Characteristics¹

Volatile	2:1 aromatic hydrocarbon, boiling range 160°C - 180°C : butyl acetate
Flash point, °C (ISO 3679)	29
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.99
Hydroxyl Content, %	4.0
Hydroxyl Equivalent weight	425

Note: Acid value and/or Hydroxyl value 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® 9203 S 52 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:

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$

$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

Using Tolonate™ HDB 75 MX (1), the recommended ratios would be:

	on solid resin	as supplied
SYNOCURE® 9203 S 52	425	817
Tolonate™ HDB 75 MX (1)	191	255

Formulation Guidelines

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9203 S 52 used should be free from water and not contain groups that react with isocyanates. Esters and ketones are true solvents and are recommended for use in combination with aromatic hydrocarbon diluents such as xylene.

Notes: (1) Vencorex Chemicals

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 9203 S 52 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 storage conditions the shelf life of the resin will be 12 months from the shipping date

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