

Razeen® SR 5097

Solid Epoxy Resin



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| General | Razeen® SR 5097 is a solid, unmodified epoxy resin based on Bisphenol A. |
| Applications | <p>Razeen® SR 5097 is a solid high melt viscosity epoxy resin designed for high quality industrial coatings and for thick-film powder coatings. These typical applications are:</p> <ul style="list-style-type: none"> • Metal decorating finishes • Can and coil coatings • Drum and tank linings • Application primers and enamels • Metal furniture finishes • Primers for practically all types of substrates <p>Razeen® SR 5097 is successfully used for the production of powder coatings for:</p> <ul style="list-style-type: none"> • Components used in the chemical industry with high chemical and mechanical resistance. • Tube and pipe coatings |

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| Properties | <p>Depending on cross linker used in the formulation such coatings yield:</p> <ul style="list-style-type: none"> • Superior flow and wetting properties • High gloss development with reduced pigment floating and flocculation • Good chemical, solvent and water resistance • Outstanding adhesion and flexibility (impact resistance) • Good corrosion resistance • Excellent sterilization performance • Good deep-drawing capability • FDA approved |
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| Specific Key Data | Property | Value | Test method |
|--------------------------|-----------------------------|-------------------------|--------------------|
| | Appearance | Clear, no contamination | JCTM 002 |
| | Color, Gardner* | 3 max | ASTM D-1544 |
| | Epoxy value | 0.52 - 0.66 eq/Kg | ASTM D-1652 |
| | Weight per epoxide | 1515 - 1920 g/eq | ASTM D-1652 |
| | Viscosity at 25 °C (77 °F)* | 1070 - 1760 mPa.s | ISO 12058-1 |

* 40% in butyl carbitol

Specific key data are individually checked throughout, guaranteed and included in certificate of analysis.

| Typical Key Data | Property | Value | Test method |
|-------------------------|---------------------------|-----------------------|--------------------|
| | Softening point (Mettler) | 100 - 118 °C | ASTM D-3461 |
| | Density at 25 °C (77 °F) | 1.2 g/cm ³ | ISO 8130 |
| | Hydroxyl content | ~ 3.2 eq/kg | ISO 4629 |
| | Flashpoint | ≥ 200 °C | ISO 2719 |

Typical key data are spot-checked; the values are typical for the product and are indicated for information only. The values are not included in certificate of analysis.

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| As-supplied form | Flakes |
| Odor | None |
| Shelf life (at storage temperature between 2-40 °C (see expiry date on original container) | 6 years |
| Hazardous decomposition products (When disposed in fire) | Carbon monoxide, Carbon dioxide and other toxic gases and vapor |
| Disposal | Regular procedures approved by local authorities. |

Package & Storage Razeen® SR 5097 is supplied in 25Kg. bags. This product has minimum shelf life of 6 years when stored in a dry place at room temperature. If stored under warmer conditions, sintering may occur.

Handling / Safety Precautions **Caution! Avoid dusty conditions.**
 Avoid contact with eyes.
 Avoid breathing dust.
 Avoid prolonged or repeated contact with skin.
 When poured, resin can generate static electricity sparks which can ignite flammable vapors or dusts.
 Use with good ventilation.

**Read Material Safety Data Sheet before using
 For Industrial use only.**

First Aid **In case of contact:**

Eyes : Promptly flush with water for at least 5 minutes.
 Skin : Wash with mild soap and water.
 Inhalation : Remove to fresh air. Give oxygen if breathing is difficult.
 Ingestion : If conscious, give plenty of water. Call a physician.

Note Razeen® is a registered trademark of JANA or an affiliate thereof.

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