

# Razeen® SR 5198

## High molecular weight solid Epoxy Resin



|                     |   |
|---------------------|---|
| <b>General</b>      | Razeen® SR 5198 is a high melt viscosity, unmodified epoxy resin based on bisphenol A, designed for high quality industrial coatings.   |
| <b>Applications</b> | Razeen® SR 5198 cured with phenolic or amino resins is suitable for the formulation of solvent containing linings for cans, tubes, and metal containers of all types. It also used in formulation of baking primers and enamels (coil coating) those are highly resistant to mechanical damage and chemicals. For the formulation of cold-curing coatings it is recommended to use polyisocyanates as hardeners.  |
| <b>Properties</b>   | <p>Razeen® SR 5198 features a low color value and good compatibility with co-resins such as phenolic and amino resins. Container linings and baking enamels yield:</p> <ul style="list-style-type: none"> <li>• Relatively low viscosity</li> <li>• Excellent flexibility and impact resistance</li> <li>• Outstanding deep-drawing capability</li> <li>• Good chemical resistance.</li> </ul> <p>Coatings formulated in combination with polyisocyanates exhibit:</p> <ul style="list-style-type: none"> <li>• High solids content can be formulated</li> <li>• High reactivity</li> <li>• Outstanding mechanical properties</li> <li>• Good chemical resistance.</li> </ul> |

| Specific key data | Property                 | Value                   | Test method |
|-------------------|--------------------------|-------------------------|-------------|
|                   | Appearance               | Clear, no contamination | JCTM 002    |
|                   | Color, Gardner*          | 2 max                   | ASTM D-1544 |
|                   | Epoxy value              | 0.34 - 0.42 eq/Kg       | ASTM D-1652 |
|                   | Weight per epoxide       | 2380 - 2940 g/eq        | ASTM D-1652 |
|                   | Viscosity @ 25°C (77°F)* | 3500 - 5500 mPa.s       | ISO 12058-1 |

\*40% in butyl carbitol

Specific data are individually checked throughout, guaranteed, and included in the Certificates of Analysis.

| Typical key data | Property                  | Value                  | Test method |
|------------------|---------------------------|------------------------|-------------|
|                  | Softening point (Mettler) | ~ 150 °C               | ASTM D-3461 |
|                  | Density at 25 °C          | 1.18 g/cm <sup>3</sup> | ISO 8130    |
|                  | Flashpoint                | ≥ 200 °C               | ISO 2592    |
|                  | Hydroxyl content          | ~ 3.1 eq/kg            | ISO 4629    |

Typical key data are spot-checked; the values are typical for the product and are indicated for information only. The Values are not guaranteed.

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

|                              |  |
|------------------------------|--|
| <b>Package &amp; Storage</b> | Razeen® SR 5198 is available in 20 Kg. bags. This product should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.  |
| <b>Handling Precautions</b>  | Forced ventilation and dust masks or respirators should be used in order to ensure that operatives do not breath in dust generated by resin, hardener or formulated or powder coatings.<br><br>Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets. |
| <b>Note</b>                  | Razeen® is a registered trademark of JANA or an affiliate thereof.   |

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