Scar-Guard® Solar

UV Curable Field-Applied ARO

Scar-Guard® Solar is a UV curable field-applied ARO designed to protect field joint and mainline coatings from the abrasion stresses and scarring of directional drilling, HDD and boring. Scar-Guard® Solar creates an abrasion resistant, sacrificial outer laminate which protects pre-approved field joint and mainline coatings such as liquid epoxies, heat shrink sleeves, and FBE. The Scar-Guard® line of products minimizes the potential for costly spot repairs or re-pulling pipe while providing the best mechanical protection of the underlying field joint and mainline coatings.

**Abrasion, Gouge, and Impact-Resistance**

- Provides unparalleled protection against impact, abrasion, gouge, punctures and tears that may result from directional drilling, rough handling, native backfills or severe in-service conditions.

**Reduces Damage During Pull-Through**

- Scar-Guard® Solar has a low surface profile which minimizes damage during pull through and allows for optimization of bore diameter.

**Fast and Easy UV Curable Installation**

- Scar-Guard® Solar is UV-Curable to suit a wide range of project cycle time requirements and construction conditions. Scar-Guard® Solar is simply wrapped onto the existing coatings surface with no field mixing required.

**Applications**

- Onshore Pipelines
- Abrasion Resistant Overcoat (ARO)
- HDD, Thrust-Boring
- Girth-Weld Joints
- Mainline Coating Protection
Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high-performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

The product information shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

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Quality Management system registered to ISO 9001

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the product data sheet when used in compliance with Canusa’s written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa’s liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Scar-Guard® Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness per Layer</td>
<td>SPPC-PA-2</td>
<td>45 mils</td>
</tr>
<tr>
<td>Hardness [Shore D]</td>
<td>ASTM D2240</td>
<td>80 @ 23°C (78°F)</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>ASTM G14-04</td>
<td>62.7 J</td>
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<tr>
<td>Tensile Modulus (in Hoop / 0° direction)</td>
<td>ASTM D638</td>
<td>13.1 GPa</td>
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<tr>
<td>Tensile Strength</td>
<td>ASTM D638</td>
<td>155 MPa (22,430 psi)</td>
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<tr>
<td>Flexural Modulus (in Hoop / 0° direction)</td>
<td>ASTM D790-07</td>
<td>17.3 GPa</td>
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<tr>
<td>Flexural Strength (psi)</td>
<td>ASTM D790-07</td>
<td>312 MPa (45,260 psi)</td>
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<tr>
<td>Elongation at break (%)</td>
<td>ASTM D638</td>
<td>0.9 %</td>
</tr>
<tr>
<td>Curing Times</td>
<td>-</td>
<td>15 min @ 4.0 mW/cm²</td>
</tr>
</tbody>
</table>

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