

Resin for Resin Bound Paving and Tree Pit Surfacing

<p>Description</p>	<p>Thorset is a high performance, two-component, UV stable resin system, suitable for a variety of areas. These include Public Urban Areas, Walkways, Driveways and Tree Pit Surfacing.</p> <p>This polyurethane resin system has been formulated as a binder for the natural dried aggregate, giving resilience and toughness with a degree of flexibility. The cured material exhibits good strength and is non-yellowing.</p> <p>Thorset is also permeable and porous, with the amount of water being able to drain determined by the aggregate and the amount of resin used. The material is also odour and solvent free and available in non UV form for budget projects.</p>
<p>Surface Preparation</p>	<p>The ambient temperature should be between 5°C and 35°C during application and cure. Dry weather conditions and a dry substrate are essential. For low-temperature applications and application onto a ramp refer manufacturer.</p> <p>Concrete Substrate: Concrete substrates should be at least 28 days old. Remove all contamination including oils and greases, laitance, algae, moss, etc and remove any dust by vacuuming. Dry thoroughly and prime if the substrate is at all permeable.</p> <p>Bituminous Substrate: Remove all contamination including oils and greases and sweep clean to remove any dust. Dry thoroughly. Thorset can be applied directly to either topcoat or base course tarmac.</p> <p>Tree Pits: Above the tree root ball, a solid base should be created to accept the Tree Pit Surfacing system. This will include at least 50mm of granular (5-10mm size) material separated from the underlying fill or tree soil with a geotextile, as necessary to avoid migration. The surface should be completely dry before application of the surfacing.</p>

<p>Mixing and Application</p>	<p>Resin Binder 2 Pack System Thorset is supplied in pre-weighed packages. Pour the contents of Pack A and Pack B into a mixing container and stir well for about 2mins.</p> <p>Single Pack and catalyst Thorset can also be supplied in a single container which should be mixed thoroughly for about 1½mins. Following this, the catalyst is added and mixing continued for a further 1½mins.</p> <p>Binder & Aggregate Place the dry natural aggregate into a mixer then commence mixing and pour in mixed resins. Mix for a minimum of 1 min, ensuring the aggregate is evenly coated.</p> <p>Application Apply immediately to the prepared area and either tamp down or finish with a trowel. Depending on the aggregate chosen, a light scattering of dry sand may be required to improve slip resistance, particularly with the rounded stone.</p>																
<p>Coverage Rate</p>	<p>Coverage rate varies with depth, stone type and stone size. The following guidelines apply to most aggregate types.</p> <p>Coverage for one 4.8kg unit of resin combined with 3 x 25kg bags of aggregate:</p> <table data-bbox="630 1205 1165 1518"> <thead> <tr> <th>depth (mm)</th> <th>Area (m2)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>4.35</td> </tr> <tr> <td>20</td> <td>2.20</td> </tr> <tr> <td>30</td> <td>1.45</td> </tr> <tr> <td>40</td> <td>1.10</td> </tr> <tr> <td>50</td> <td>0.85</td> </tr> <tr> <td>60</td> <td>0.70</td> </tr> <tr> <td>70</td> <td>0.60</td> </tr> </tbody> </table> <p>The above applies to aggregate mixes for decorative urban areas with pedestrian and light vehicle loading.</p> <p>The thickness of Thorset and resin content is determined by the maximum aggregate size and the type of traffic loading. It is important to have a substrate suitable for the intended traffic loads to enable Thorset to be laid to its optimum specification and functional longevity.</p> <p>The use of tumbled glass and other alternative materials require a different grade of resin, and an increased resin content in the mix – refer to the supplier.</p>	depth (mm)	Area (m2)	10	4.35	20	2.20	30	1.45	40	1.10	50	0.85	60	0.70	70	0.60
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Technical Properties	Pot Life 20°C: 20 minutes Cure @20°C: 3.0 – 4.0 hours
Health and Safety	It is recommended that barrier cream, gloves, boots and overalls be worn when using Thorset. When cured, Thorset is classed as a non-hazardous material. For full details please refer to the appropriate material safety data sheets.

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