



# THORSET™

# RESIN-BOUND

*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.*

## INTRODUCTION

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. Thorset is also available in non UV form for budget projects. Thorset is permeable and porous, with the amount of water being able to drain determined by the aggregate and the amount of resin used. Also odour and solvent-free.

## SURFACE PREPARATION

Ambient temperature should be between 5oC and 35oC during application and cure. Dry weather conditions and a dry substrate are essential. For low-temperature applications and application onto a ramp refer manufacturer.

### Concrete Substrate:

Concrete substrates should be at least 28 days old. Remove all contamination including oils and greases, laitance, algae, moss, etc. Remove any dust by vacuuming. Dry thoroughly and prime if the substrate is at all permeable.

### Bituminous Substrate:

Remove all contamination including oils and greases. Sweep clean to remove any dust. Dry thoroughly. Thorset can be applied directly to either topcoat or base course tarmac.

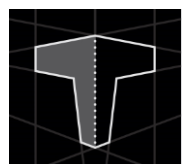
### Tree Pits:

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 geo-textile as necessary to avoid migration. The surface should be completely dry before application of the surfacing.

## COVERAGE/APPLICATION /CURE TIME

### Resin Binder 2 Pack System

Thorset is supplied in pre-weighed packages. Pour contents of Pack A and Pack B into a mixing container, and stir



well for about 2mins. 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.

#### **Binder & Aggregate**

Place the dry natural aggregate into a mixer. Commence mixing and pour in mixed resins Mix for a minimum of 1 min ensuring aggregate is evenly coated.

#### **Application**

Apply immediately to the prepared area. 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.

#### **Coverage Rate**

Coverage rate varies with depth, stone type and stone size. The following guidelines apply to most aggregate types.

Coverage for one 7kg unit of resin combined with 4 x 25kg bags of aggregate

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

The above applies to aggregate mixes for decorative urban areas with pedestrian and light vehicle loading. The thickness of Thorset and resin content is determined by the maximum aggregate size and 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.

Tumbled glass and alternative materials used require a different grade of resin, and increased resin content in the mix – refer to the supplier.

Pot Life 20°C: 20 minutes  
Cure @ 20°C: 3.0 – 4.0 hours

### **PACKAGING / STORAGE**

Thorset is supplied in 12.5kg units and in 2 components. The material should be stored in cool dry conditions, between 3 and 25°C.

### **HEALTH & SAFETY**

It is recommended that barrier cream, gloves, boots and overalls be worn when using Thorset. When cured Thorset is classed as non-hazardous material.

It is the customer's responsibility to ensure that this product is suitable for purpose. Results are not guaranteed as application conditions are beyond our control. Every care has however been taken in the compilation of this information.

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