BoundBase Application Data Sheet

PRODUCT OVERVIEW

BoundBase is an eco-friendly, highly durable base designed specifically for Resin Bound installations such as Resin Bound Driveways, Patios or Pathways. Crafted from 100% recycled aggregates and renewable binders, BoundBase provides exceptional permeability and compliance with Sustainable Urban Drainage Systems (SuDS).

With quick installation and lasting resilience, BoundBase is the perfect base choice for your Resin Bound installation.

Our BoundBase system is designed for Resin Bound installers who want to save time/money. For smaller jobs it is possible to install both the base and the Resin Bound layer in one day!

MIXING OF THE RESIN AND AGGREGATE

Each unit consists of:

5 x 25kg bags 6-10mm kiln dried aggregate

1 x Part A (Resin)

1 x Part B (Curing Agent)

You MUST use Forced Action Mixer with a minimum capacity of 120L

You MUST follow a consistent order for the mixing process. Step by step instructions as follows:

Add the 5 x 25kg bags to the Forced Action Mixer.

Pour the Part B (Curing Agent) into the Part A (Resin). Mix thoroughly with a 110V Drill and Paddle mixer for 45 seconds. Ensure that there is a consistent colour in the resin. Take care to mix right to the bottom and into the corners of the bucket.

Mixing of the Resin (Part A) and Hardener (Part B) is a very important part of the process. Short cuts must NOT be taken.

Add the mixed resin to the aggregate in the Forced Action Mixer. Ensure all the resin has been removed from the container.

Allow the materials to mix for a minimum of 2 minutes.

Empty the materials through the chute into a lined wheelbarrow and take it to the area where the material is being trowelled.

After repeating this mixing process 6 times, turn the machine off and clean down your Forced Action Mixer. See the “CLEANING MIXER” section for further instructions.

Do not turn the mixer off when it has a full unit of Resin Bound materials in it. This can cause the switch to break on the Forced Action Mixer over time. Empty the full mix as soon as the 2 miniute timer is up.

COVERAGE RATE:

Depth	Coverage
30mm Pedestrian & Light Vehicle	2.9m²

For commercial and heavily trafficked areas please contact us for depths

KEY PROPERTIES

- Type of Resin: High-performance UV Stable Polyurethane Resin
- Aggregate Type: Recycled, eco-friendly aggregate
- Overlay Time: 1-2 hours (Overlay time can be controlled by adding catalyst)
- Full Cure Time: 7 Days
- Application Temperature Range: 5°C to 25°C

SYSTEM COMPONENTS

- BoundBase Resin: A robust polyurethane binder that ensures durability and long-term performance.
- Natural Aggregate: High-quality, sustainable aggregate providing a strong foundation for the resin layer.
- BoundBase Mesh: A crucial component to enhance strength and flexibility, adding durability to the base.

BENEFITS

- Easy to install leaving a smooth surface and correct depth around the edges. This means you can order your BoundWorx colour with 10% excess and be confident you have enough materials to complete the area.

- Exceptional Bonding: Ensures a durable bond between the binder and surface.
- Environmentally Friendly: Made with natural aggregates and components to reduce environmental impact.
- Quick Installation: Install both base and surface layers in a single day, saving time on site. Subject to the size of job.
- Long-Term Durability: Built to withstand pedestrian, vehicular, and heavy vehicle traffic, offering lasting strength.
- No need for Concrete: SUDS-compliant, reducing the need for tarmac or concrete.

APPLICATION RECOMMENDATIONS

Please consult the BoundBase Base Build-Up data sheet for standard depths and sub-base structures.

CURING TIME

The curing times will vary depending on the temperature at the time of application, and any additional catalyst used. Typical cure times are as follows:

Average curing at 15°C for pedestrianised areas = 24 Hrs
Average curing at 15°C for trafficked areas = 48 Hrs

When laying the top layer of BoundWorx Resin Bound on the same day, additional catalyst will be required to BoundBase Resin.

Suggested catalyst addition to achieve approximately a two hour overlay time is as follows:

At 5-9°C use 5-4ml approx. of catalyst per mix/unit.

At 10-15°C use 2-3ml approx. of catalyst per mix/unit.

At 15-20°C use 1-2ml approx. of catalyst per mix/unit.

At 20-25°C use 0-1ml approx. of catalyst per mix/unit.

We suggest that you check the hardening of the surface of your first mix around 30 minutes after it has been laid to assess whether you need to add more or less catalyst for the remaining mixes of the project.

Please do not hesitate to contact us for further information or specific recommendations on the day of installation.

HEALTH & SAFETY PRECAUTIONS

Before using these products please ensure you have been supplied and have read carefully the following:

1. Data sheet
2. Material Safety Data Sheet.

ADDITIONAL PRECAUTIONS

- Always wear industrial gloves and suitable eye protection during use.
- Ensure you read the relevant safety datasheets for full handling instructions.

CLEANING OF TOOLS AND HANDS

Tools, machinery etc, should be cleaned immediately after use with Xylene or our **RESIN BONDED SOLVENT CLEANER**. **NOT WHITE SPIRIT.** Avoid contact with skin and use organic hand cleaner on hands.

No naked flames should be used with Xylene or RESIN BONDED SOLVENT CLEANER.

POT LIFE

The shelf life of unmixed BoundBase Part A is 24 months if stored above 5°C and not in direct sunlight.

The shelf life of unmixed BoundBase Part B is 6 months if stored above 5°C and not in direct sunlight.

BOUNDBASE MESH LAYERS

The BoundBase Mesh must be added directly onto the MOT and then again onto the BoundBase before installing the BoundWorx colour. It is a crucial element of the BoundBase system, designed to add high strength and support to the base layer, improving resistance to cracking and providing additional strength.

BOUNDBASE MESH PACKAGING & DIMENSIONS

- Length: 100m
- Width: 1.2m
- Colour: Black
- Area per roll: 120m²
- Coverage per roll after 50-100mm overlap: 110-115m²
- Weight: 30kg per roll

Please note that two layers of BoundBase Mesh should always be used, sandwiching the BoundBase Resin and Aggregate layer in-between. In addition BoundBase Mesh should be installed in strips with a 50-100mm overlap. In practical terms this means that the area covered by one 130m² roll is 120m².

Any advice, recommendation or information given by Resin Bonded Ltd is based on practical experience and is believed to be accurate at the time of publication, no liability or responsibility of any kind (including liability for negligence) is accepted in this respect by the company, its Servants, or Agents.

The figures quoted do not constitute a specification, they represent typical values obtained for this product.