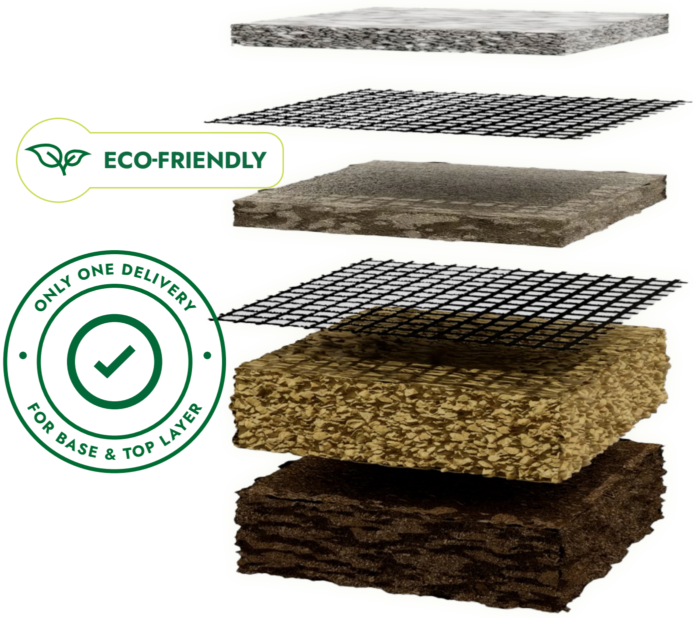
INSTALLATION GUIDE

POLYBASE SYSTEM



ABOUT POLYBASE

Polybase is an eco-conscious, high-performance base system engineered specifically for resin bound surfacing. Using recycled materials and a polyurethane binder, it creates a monolithic bond with the resin top coat—delivering exceptional strength, permeability, and same-day installation for both pedestrian and vehicular applications.

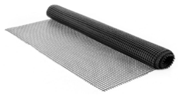
ESSENTIAL TOOLS & EQUIPMENT | All available from Polybound.co.uk


Hurricaine Forced Action Mixer


Paddle Mixer


Wheel Barrow or Mixing Tub


Trowel, Power Float & Spazzle


PolySolve


Cutting Equipment

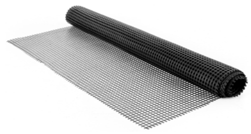

PPE (Gloves, Googles, Respirator)

SYSTEM COMPONENTS (PER KIT)

4.5 kg Polybase Resin A+B


5kg Binding Quartz

4 Bags of Recycled Aggregates


Geo Textile Mesh

BUILD DEPTHS

TRAFFIC TYPE	BASE DEPTH	RESIN BOUND SURFACE	TOTAL SYSTEM DEPTH	COVERAGE
Pedestrian	20mm	15mm	35mm	3.4m^2
Vehicle	30mm	18mm	48mm	2.3m^2

BEST PRACTICE

- Always mix complete kits—do not split components.
- Check ambient and substrate temperature (5–30 °C).
- Avoid application in wet or freezing conditions.
- Clean tools immediately after use.
- For large projects, stagger mixing teams to maintain a wet edge.

DISCLAMER

Resin is a temperature dependant material, extreamly hot or cold temperatures can massively affect it's curing time. it's recommended that you lay resin in warm, dry weather between 5 °C – 25 °C.

Polybase application guide V2

POLY BOUND
THE HOME OF RESIN

FOR TECHNICAL QUERIES, SPECIFICATION GUIDANCE, OR TRADE PRICING,

CONTACT : 01274 044199
INFO@POLYBOUND.CO.UK
WWW.POLYBOUND.CO.UK

ECO-FRIENDLY

INSTALLATION GUIDE

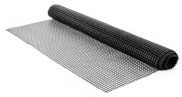
POLYBASE SYSTEM

1 | SUB-BASE PREPARATION

- Excavate and prepare the area, ensuring a level, compact surface.
- Lay a non-woven geotextile membrane to separate the sub-base and sub-soil.
- Compact 125–225 mm of MOT Type 3 aggregate, depending on soil composition.
- Apply a 25 mm capping layer of 5–10 mm clean angular stone for uniform levels.

2 | INSTALL GEO-TEXTILE MEMBRANE

- Roll out the Geo-Textile Membrane across the surface.
- Trim edges neatly and overlap joins by 150 mm (6 inches).
- Ensure the mesh is flat, tight, and free from waves or creases.



3 | MIXING THE POLYBASE BINDER

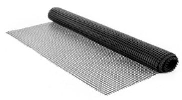
- Load Aggregates: Add two bags of recycled aggregate to the forced-action mixer.
- Mix Resin Components: Pour Part B into Part A and whisk for 30–60 seconds until fully homogeneous.
- Start Mixer: Turn on the mixer and add the remaining two bags of aggregate.

4 | APPLY THE POLYBASE BINDER

- Discharge the mix into wheelbarrows or a resin sledge.
- Pour onto the Geo-Textile Membrane layer and spread evenly using a spazzle or trowel.
- Target depths: 20 mm (pedestrian), 30 mm (vehicle).
- Compact and smooth the surface with a trowel or power float.

5 | INSTALL SECOND GEO-TEXTILE MEMBRANE LAYER

- Once the base has cured, immediately lay the second Geo-Textile Membrane layer on top.
- Use a roller or trowel to settle the mesh into place.
- Apply trowel cleaner as a release agent if necessary.
- Allow 1.5–2 hours to cure (temperature dependent).



6 | APPLY THE RESIN BOUND SURFACE LAYER

- Combine Part A and Part B Resin, mix 30–60 seconds until homogeneous.
- Add full aggregate load to the forced-action mixer, then pour in mixed resin.
- Mix for 2–3 minutes until aggregates are evenly coated.
- Apply and trowel to the required depth:
    - 15 mm (pedestrian)
    - 18 mm (vehicle)
- Use a hand trowel or power float to achieve a smooth, consistent finish.

7 | CURING & FINISHING

- Allow 24–48 hours before light foot traffic.
- Allow 7 days for full chemical cure before vehicular use.
- Protect from moisture, rain, and frost during curing.
- Optional: Apply pore sealer once surface is fully cured.

HEALTH & SAFETY

Wear gloves, goggles, and a respirator when mixing resin. Avoid skin contact with Part B; rinse with clean water if contact occurs. Consult the Polybase Data Sheet before use.