

INSTALLATION GUIDE

INTERNAL STONE CARPET SYSTEM

ABOUT INTERNAL STONE CARPET

Polybound Internal Stone Carpet is a seamless resin-bound flooring system designed for internal residential and light commercial environments. When installed correctly, it provides a durable, non-slip, and visually refined finish suitable for use with underfloor heating and modern interior spaces.

This guide outlines the correct preparation, installation, pore filling, and sealing process to ensure consistent performance and finish quality.



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



Hurricane Forced
Action Mixer



Paddle Mixer



Wheel Barrow or
Mixing Tub



Trowel,
Power Float &
Spazzle



PolySolve/Trowel
Lubricant



Squeegee



PPE
(Gloves, Goggles, Respirator)

SYSTEM COMPONENTS (PER KIT)



UVR Resin A+B



Internal Stone Aggregate



Primer



Pore Filler



Optional Pore Sealer

BASE PREPARATION

Concrete Substrates

Concrete provides the ideal base for Internal Stone Carpet systems.

Ensure the surface is clean, dry, and free from dust, oil, grease, or curing compounds.

Repair cracks or defects prior to installation.

Minor surface undulations can be corrected during installation, but significant irregularities should be levelled in advance.

Tiled Substrates

Tiles must be securely bonded with no loose or hollow areas.

Mechanically abrade the surface using an orbital sander to provide a suitable key for the primer.

Remove all dust and debris prior to priming.

Timber Substrates

Timber floors must be overlaid with a minimum 18 mm exterior-grade plywood.

Plywood sheets must be securely fixed at 150 mm centres.

Ensure the surface is flat, rigid, and free from movement before priming.

SUITABLE SUBSTRATES

Internal Stone Carpet can be installed over the following substrates, provided they are correctly prepared:

Existing or new concrete, Ceramic or porcelain tiles
Timber floors prepared with plywood overlay

The substrate must be structurally sound, clean, dry, and free from contamination prior to installation.

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.

DISCLAIMER

Resin is a temperature dependant material, extremely 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.

Internal Stone Carpet application guide V2

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1 | PRIMING

A compatible Polybound solvent-based primer must be applied prior to laying the resin.

- Ensure adequate ventilation by opening windows and doors.
- Apply the primer evenly using a roller.
- The primer allows wet-on-wet application, meaning the stone carpet can be installed without waiting for the primer to fully cure.

Ensure full coverage with no dry patches.



2 | MIXING THE STONE CARPET

Correct mixing is critical to system performance.

- Pour the aggregate into a forced-action mixer, up to a maximum of four bags per mix.
- Pre-mix Part A and Part B of the resin for approximately 90 seconds.
- Add the mixed resin to the aggregate and continue mixing for a further two minutes.
- Ensure all aggregate is evenly coated with resin before application.

Do not under-mix or over-mix.



3 | APPLYING THE STONE CARPET

Apply the mixed stone carpet immediately after mixing.

- Use a hand trowel to spread the material evenly.
- Lubricate the trowel using white spirit or suitable thinners to prevent drag.
- Lay to a compressed depth of approximately 8 mm.
- Use a low-level halogen light positioned behind the installer to highlight imperfections.
- Inspect the surface from multiple angles to ensure consistency and smoothness.



Once installed, cordon off the area to prevent access.

Allow the surface to cure for a minimum of 24 hours. Curing times will vary depending on ambient temperature. Load Aggregates: Add two bags of recycled aggregate to the forced-action mixer.

4 | APPLYING THE PORE FILLER

Once the stone carpet has cured, the pore filler can be applied.

- Pour the pore filler directly onto the surface.
- Spread evenly using a rubber squeegee to fill surface voids.
- Smooth out any lines by working the squeegee left to right.
- Back-roll with a lint-free roller to achieve a uniform finish.

The pore filler will appear white or blue during application and will dry clear.

Allow up to 24 hours to dry depending on temperature and airflow. Heating may be used to accelerate curing. In colder conditions, allow up to 48 hours.



5 | SEALING (WHERE REQUIRED)

In areas exposed to higher humidity or regular moisture, the cured pore filler must be protected using a compatible Polybound Internal Stone Carpet Pore Sealer.

- Apply one or more thin coats using a roller.
- Allow each coat to cure in line with the sealer guidance before re-coating.
- Do not allow the pore filler to remain exposed in wet environments.



7 | CURING & FINISHING

- Do not allow foot traffic until the system has fully cured.
- Avoid water exposure until sealing has been completed where required.
- Underfloor heating may be used but should be brought up to temperature gradually.



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.