

Infinity Effects Stone Carpet System (System 3)

Internal Resin-Bound Decorative Aggregate Flooring

Type: Polyurethane/Polyaspartic Hybrid Resin-Bound Stone Carpet

Warranty: Yes – Warranted when installed by an Infinity Certified Installer

Purpose: Designed for internal residential and commercial flooring where a seamless, decorative, sound-dampened, slip-resistant, and easy-to-clean stone carpet finish is required. Suitable for concrete, screed, tile, timber (stabilised), and moisture-controlled substrates.

Materials You'll Need

- Vacuum (industrial)
 - Mop, cloths, microfibre wipes
 - Grinder with diamond pads (if needed)
 - Moisture meter
 - pH testing kit
 - Forced-action mixer
 - Infinity Effects Rox Primer
 - Infinity Effects Self-Adhesive Movement Mesh (optional but recommended on timber/tiles)
 - Infinity Effects Rox Binder
 - Kiln-dried decorative aggregates (stone carpet blends)
 - Infinity Effects ROX Sealer
 - Mixing buckets & tools
 - Masking tape & plastic sheeting
 - Steel resin trowels & floats
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Additional Equipment (Optional)

- Moisture suppressor
 - Underfloor heating test kit
 - Sound insulation rolls
 - Dehumidifier
 - Heat mat or tent for cold installations
 - Primer / Binder accelerator
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Step-by-Step Application Guide



Step 1. Acclimate the Room and Materials

For 24 hours before installation:

- Keep room temperature between **15–25°C**
- Keep humidity below **65%**
- Store resin, aggregates, and tools inside the installation room

Do NOT install in cold, damp, or unheated environments.

Step 2. Clean and Prepare the Subfloor

The subfloor must be:

- Clean
- Dry
- Flat
- Structurally sound
- Free from laitance, adhesives, polish, grease, and contaminants

Preparation per substrate:

Concrete/Screed

- Grind smooth
- Remove dust
- Repair cracks
- Moisture < **6% CM**
- pH < **10**

Tiles

- Check for hollow tiles
- Repair loose tiles
- Degrease thoroughly
- Grind to deglaze surface

Timber

- Must be rigid (no bounce)
 - Screw down loose boards
 - Use movement mesh recommended in Step 6
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Step 3. Repair Imperfections



Fix:

- Cracks
- Holes
- Depressions
- Weak patches
- Joint lines

Use Infinity Effects approved repair mortars.

Subfloor must be fully cured and stable before priming.

Step 4. Vacuum and Remove All Dust

Dust is the number one cause of failure.

- Vacuum entire area
 - Wipe surfaces with a slightly damp microfibre cloth
 - Ensure floor is completely dry before priming
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Step 5. Apply Infinity Effects Poly Rapid Prime (Interior Grade)

===== CONCRETE PRIMER APPLICATION SETTINGS =====

- Coverage: 150–250 g/m²
 - Roller or squeegee application
 - Additives: Up to 10% ROX Thinner (if required for penetration)
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Prime entire surface to:

- Improve adhesion
- Seal dust
- Stabilise porous areas
- Prevent resin absorption into subfloor

Allow primer to become **tacky**, not fully dry.

Step 6. Install Infinity Effects Movement Mesh (Optional but Recommended)

Movement mesh is strongly recommended for:

- Timber floors
- Tile installations



- Over areas with crack repairs
- Large rooms
- Floating floors
- Vibrational zones (stairs, landings, etc.)

Purpose:

- Prevents reflective cracking
- Stabilises subfloor deflection
- Handles micro-movement
- Improves longevity in internal environments

Installation Notes:

- Apply into **tacky primer**
- Overlap strips by **50–80 mm**
- Cut around edges neatly
- Do not bridge expansion joints

Once mesh is fully adhered, proceed to the next step.

Step 7. Prepare the Resin-Bound Stone Carpet Mix

Use a **forced-action mixer only**.

Standard Mix Ratio:

- 25 to 100 kg kiln-dried decorative aggregate (0.7-1.2mm or 1-3mm)
- 1.88 to 7.5kg kg Infinity Effects ROX Binder (Interior Grade)
- Optional: Anti-slip additive for wet rooms

Mixing Instructions:

1. Add aggregates to mixer
2. Pour binder evenly over stone
3. Mix for **60–90 seconds** until all stones are coated
4. Do NOT overmix
5. Empty mix immediately and spread

Work quickly — interior binders have controlled pot life.



Step 8. Lay the Resin-Bound Stone Carpet

Spread mixed material onto the primed/meshed surface.

Typical thickness:

- **8–10 mm** (recommended)

Application Technique:

- Use steel trowels and flats
- Maintain wet edges
- Compact thoroughly
- Work in manageable sections
- Ensure consistent thickness across room

Edges must be crisp with no gaps or hollows.

Step 9. Trowel and Perfect the Surface

To achieve a seamless, uniform finish:

- Use smooth, even trowel strokes
- Avoid excessive pressure
- Light solvent mist (if needed)
- Remove trowel shine marks while wet
- Correct imperfections immediately

Achieve a consistent “open stone” appearance.

Step 10. Allow Full Curing

Typical curing times:

- **Walkable:** 6–8 hours
- **Furniture placement:** 24 hours
- **Rugs allowed:** After 72 hours
- **Full chemical cure:** 5–7 days

Keep windows slightly open for ventilation.

Avoid:



- Dust
- Pets
- Foot traffic
- Heavy furniture
- Moisture
- Spills

Step 11. Apply Infinity Effects Stone Carpet Sealer

Choose finish:

- Gloss

INFINITY STONE CARPET SEALER SETTINGS

- Application: Rubber Grout Trowel
 - Coverage: 960g / m²
 - Additives: None
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Benefits:

- Easier cleaning
- Stain resistance
- Removes porosity
- Higher durability
- Protects open-stone surfaces

Allow sealer to fully cure before traffic.

Step 12. Apply ArmourGuard Clear V2 (Optional)

Choose finish:

- Gloss
- Satin
- Matte

INFINITY STONE CARPET SEALER SETTINGS

- Application: Roller



- Coverage: 100g / m²
 - Additives: None
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Benefits:

- Additional UV stability
- Antimicrobial protection
- Enhanced wear resistance
- Ability to control final sheen
- Higher durability
- Protects open-stone surfaces

Allow INFINITY Stone Carpet Sealer to fully cure before install ArmourGuard Clear V2.

Step 13. Final Inspection

Check for:

- Even stone distribution
- No binder pooling
- No dry spots
- Consistent thickness
- Smooth blended transitions
- Clean, sharp edges

Once approved, the floor is ready for use.

Important Tips

- Maintain indoor temperature 15–25°C during installation.
 - Never install over damp or untested substrates.
 - Ensure aggregates are **completely dry**.
 - Keep resin indoors for temperature stability.
 - Forced-action mixer is mandatory — no cement mixers.
 - Prime absorbent subfloors twice.
 - Mesh recommended for all unstable or repaired floors.
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Problems & How to Avoid Them



Problem: Patchy colour or texture

Cause: Uneven mixing or inconsistent binder ratio

Fix: Maintain strict mixing weights.

Problem: Cracking or reflective lines

Cause: Subfloor movement or tile lines

Fix: Use movement mesh.

Problem: Whitening

Cause: Moisture trapped under system

Fix: Ensure moisture <4% before starting.

Problem: Loose stones

Cause: Under-bonding from low resin content

Fix: Follow correct binder weights.

Problem: Rough trowel finish

Cause: Overworking or incorrect solvent use

Fix: Use controlled, light trowel pressure.

DISCLAIMER

Customers must read and follow all instructions to ensure optimal installation and long-term performance.

Information provided is based on extensive testing and field experience but cannot account for all on-site conditions.

Infinity Effects is not responsible for workmanship errors, incorrect subfloor preparation, or environmental factors.

Always carry out a compatibility test before full installation.

Colour variations may occur between batches of aggregate and binder.



INFINITY ROX BINDER FLOOR SYSTEM'S

