INFINITY EFFECTS

SURFACES FOR A BETTER TOMORROW

INNOVATIVE
DURABLE
BEAUTIFUL
SUSTAINABLE



ROX
RESIN-BOUND
HIGH-END INTERNAL STONE CARPET SYSTEM

PROFESSIONAL INSTALLATION GUIDE

System 4 | Resin-bound high-end internal stone carpet

POLYURETHANE / POLYASPARTIC HYBRID SYSTEM

A premium internal resin-bound decorative aggregate flooring system designed to create seamless, luxurious and highly durable stone carpet finishes for residential and commercial interiors.

- INTERNAL USE
- SEAMLESS FINISH
- DURABLE & SLIP RESISTANT
- DECORATIVE FINISH

Luxury Homes | Hotels | Retail | Offices | Showrooms | Restaurants
Reception Areas | Hallways | Stairs | Commercial Interiors

A RANGE OF PREMIUM DECORATIVE STONE BLENDS AVAILABLE

BUILT FOR A BRIGHTER TOMORROW

- CERTIFIED INSTALLERS
- WARRANTIED SYSTEM
- PREMIUM SURFACES
- GLOBAL SUPPLY

SCAN FOR LATEST TDS, SDS & SUPPORT

Warrantied when installed by an Infinity Certified Installer, subject to system requirements.

SYSTEM OVERVIEW

HIGH-END INTERNAL STONE CARPET SYSTEM

Infinity Effects ROX Resin-Bound High-End Internal Stone Carpet System – System 4 is a premium polyurethane/ polyaspartic hybrid decorative flooring system developed specifically for internal residential and commercial environments.

The system combines a correctly prepared substrate, Infinity Effects ROX Primer, optional/recommended CRM Movement Mesh, kiln-dried decorative aggregate, Infinity Effects ROX Binder, Infinity Stone Carpet Sealer and an optional R.S Urethane Water-Based Topcoat.

The finished floor provides a seamless decorative stone appearance while delivering a durable, slip-resistant, sound-dampened and easy-to-maintain internal surface.

Suitable for properly prepared concrete, screed, tile, stabilised timber and moisture-controlled substrates.

DESIGNED FOR

High-end residential and commercial interiors including luxury homes, hotels, reception areas, retail spaces, offices, showrooms, restaurants, hallways, stairs and other decorative internal flooring areas.

RESIDENTIAL INTERIORS

COMMERCIAL SPACES

LUXURY FINISHES

SUSTAINABLE SURFACES



CRITICAL INSTALLATION PARAMETERS

GET IT RIGHT FOR A PREMIUM FINISH

Parameter	Requirement
Substrate condition	Clean, dry, flat, stable and structurally sound
Room temperature	15–25°C
Relative humidity	Below 65%
Concrete/screed moisture	Below 6% CM
Concrete/screed pH	Below 10
Aggregate	Completely kiln-dried
Aggregate size	0.7–1.2 mm or 1–3 mm
Mixer	Forced-action mixer
Typical thickness	8–10 mm
Warranty	Yes – when installed by an Infinity Certified Installer

SYSTEM BUILD-UP

A PREMIUM SYSTEM FOR LASTING RESULTS



6. **OPTIONAL TOPCOAT**
   Infinity Effects R.S Urethane Water-Based Topcoat
5. **PORE SEALER**
   Infinity Effects Stone Carpet Sealer
4. **STONE CARPET**
   Kiln-dried decorative aggregate + Infinity Effects ROX Binder
3. **REINFORCEMENT**
   Infinity Effects CRM Movement Mesh where specified
2. **PRIMER**
   Infinity Effects ROX Primer
1. **SUBSTRATE**
   Prepared concrete / screed / suitable tile / stabilised timber



Materials, Tools & Site Setup

Prepare the complete installation kit before mixing begins. Internal Stone Carpet installation requires controlled mixing and uninterrupted wet-edge application, so all materials, equipment and environmental controls should be ready before work starts.

PREPARE. PLAN. PROTECT.

Having all materials and equipment ready before mixing begins helps maintain consistent batches, controlled wet edges and a high-quality decorative finish.

ESSENTIAL MATERIALS & TOOLS

- Industrial vacuum
- Cleaning cloths and microfibre wipes
- Mechanical grinder with diamond tooling where required
- Moisture meter
- pH testing equipment
- Forced-action mixer
- Mixing buckets and tools
- Infinity Effects ROX Primer
- Infinity Effects CRM Movement Mesh where specified
- Infinity Effects ROX Binder
- Completely kiln-dried decorative Stone Carpet aggregate
- Infinity Effects Stone Carpet Sealer
- R.S Urethane Water-Based Topcoat where specified
- Steel resin trowels and floats
- Rubber grout trowel
- Rollers
- Masking tape and protective sheeting



OPTIONAL EQUIPMENT

- Moisture suppression system (MVB)
- Underfloor-heating test equipment
- Sound-insulation system
- Dehumidifier
- Heating equipment for cold installations
- Approved primer/binder accelerator where specified



SITE RULE

Do not begin installation in cold, damp, unheated or environmentally uncontrolled conditions.

Acclimatise the room, resin, aggregate and installation equipment before work begins.

CONTROLLED CONDITIONS PREMIUM RESULTS



Stage 1 – Substrate Preparation

A properly prepared and stable internal substrate is essential for a seamless, durable and long-lasting Stone Carpet floor.

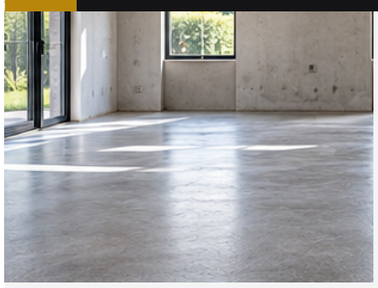
01 ACCLIMATISE ROOM & MATERIALS



For approximately 24 hours before installation, maintain:

- **Room temperature: 15–25°C**
- **Relative humidity: below 65%**
- **Store resin, aggregate and installation equipment within the installation environment.**

02 INSPECT THE SUBSTRATE



- Clean
- Dry
- Flat
- Stable
- Structurally Sound

The floor must be clean, dry, flat, stable and structurally sound.

Remove laitance, adhesives, polish, grease and other contaminants that could interfere with adhesion.

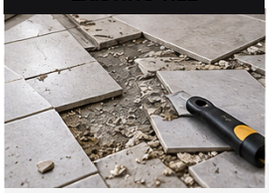
03 PREPARE FOR SUBSTRATE TYPE

CONCRETE / SCREED



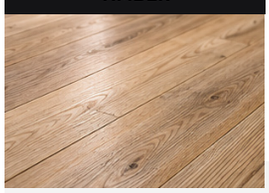
- Mechanically prepare where required
- Repair cracks
- Remove all dust

EXISTING TILE



- Identify loose or hollow tiles
- Repair defective areas
- Thoroughly degrease
- Mechanically deglaze

TIMBER



- Must be rigid and stable (no bounce)
- Secure loose boards before installation

04 CHECK MOISTURE & pH



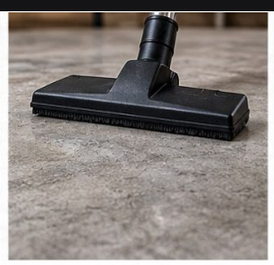


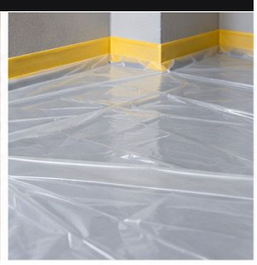
For concrete/screed confirm:

- **Moisture below 6% CM**
- **pH below 10**

05 REPAIR, VACUUM & PROTECT







REPAIR

- Repair cracks, holes, depressions, weak areas and joint lines.
- Use Infinity Effects approved repair products.

VACUUM

- Allow repairs to fully cure.
- Industrial-vacuum the entire floor.

PROTECT

- Protect surrounding walls, doors, skirting, fixtures and adjoining surfaces.
- Ensure the area is clean and dry before priming.

DO NOT PROCEED

If the substrate is damp, contaminated, unstable, excessively flexible or inadequately prepared.





Stage 2 – Apply ROX Primer

Infinity Effects ROX Primer prepares and stabilises the substrate, promotes adhesion and helps control resin absorption into porous internal subfloors.

01 FINAL CLEAN



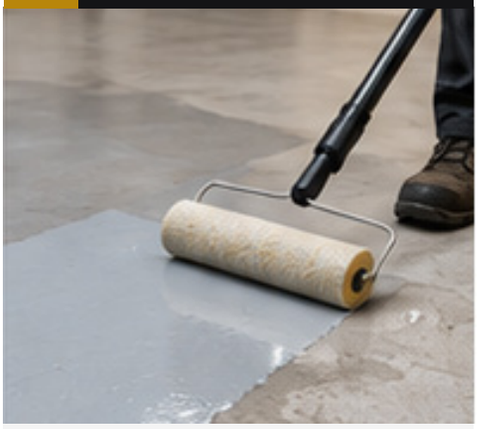
- Ensure the prepared substrate is completely clean, dry and dust-free.

02 PREPARE ROX PRIMER



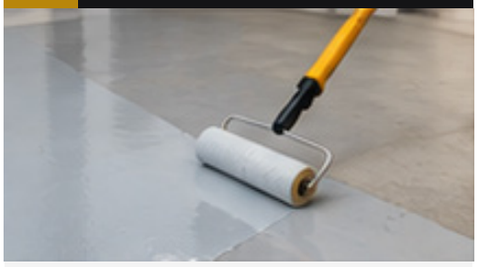
- Prepare and mix ROX Primer according to the current individual product TDS.

03 APPLY THE PRIMER



- Apply evenly using a roller or squeegee.
- Typical coverage: 150–250 g/m²
- Add up to 10% ROX Thinner (if required for penetration).

04 CHECK COVERAGE



- Ensure complete and consistent coverage.

Primer helps:

- **IMPROVE ADHESION**
- **SEAL RESIDUAL DUST**
- **STABILISE POROUS AREAS**
- **CONTROL RESIN ABSORPTION**

TOP TIPS

- Ensure the substrate is dry before priming.
- Do not leave unprimed areas.
- Avoid puddles and excessive build-up.
- Highly absorbent substrates may require additional priming.
- Where CRM Mesh is required, install according to the system procedure.

ROX PRIMER



ALWAYS REFER TO THE CURRENT ROX PRIMER TDS



Stage 3 – Install CRM Movement Mesh

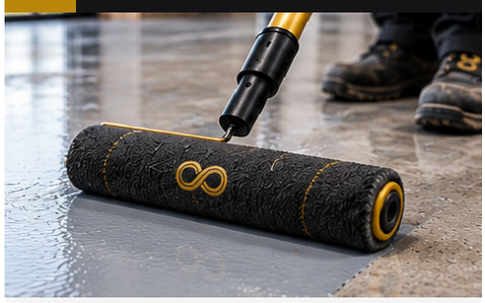
Infinity Effects CRM Movement Mesh is used where specified to help reduce reflective cracking, manage micro-movement and improve the long-term stability of the internal Stone Carpet system.

TYPICALLY USED FOR

- Timber floors
- Existing tiled substrates
- Repaired cracks
- Large rooms
- Floating floors
- Stairs and landings
- Vibrational zones



01 ENSURE PRIMER IS SUITABLE



- Ensure ROX Primer is suitably tacky before installing the mesh.

02 ROLL OUT MESH



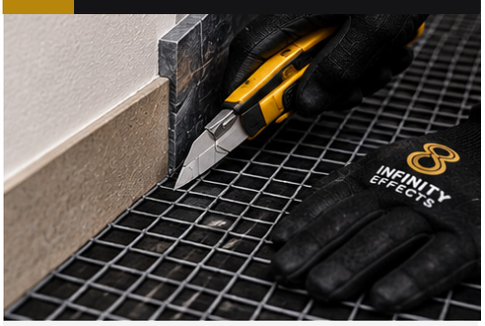
- Lay CRM Movement Mesh flat across the prepared floor.

03 OVERLAP JOINTS



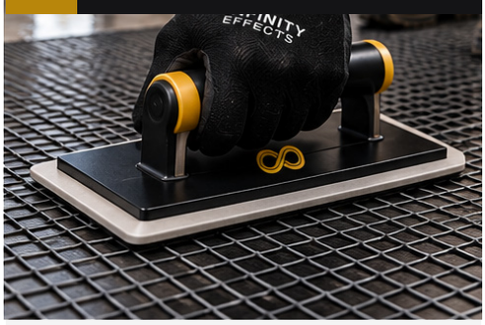
- Overlap adjacent sections by 50–80 mm.

04 TRIM TO EDGES



- Cut neatly around walls, columns, floor penetrations, stairs and fixed details.

05 EMBED & SECURE



- Ensure the mesh is lying flat and fully supported with no folds, wrinkles or raised sections.

KEY POINTS

- Install correctly into the prepared system
- Overlap 50–80 mm
- Keep mesh flat
- Cut accurately around details
- Do not bridge structural expansion joints

**CONTROL MOVEMENT.
PROTECT THE FINISH.**

CRM Movement Mesh helps prevent reflective cracking, stabilises subfloor deflection, handles micro-movement and improves longevity in internal environments.

Stage 4 – Mix & Apply Stone Carpet

The wearing course combines premium kiln-dried decorative aggregate with Infinity Effects ROX Binder to create a seamless, natural and high-end internal Stone Carpet finish.

PREMIUM RESULTS

A combination of natural decorative stone, controlled resin technology and professional trowel application creates a luxurious internal flooring finish.

SEAMLESS DURABLE NATURAL FINISH



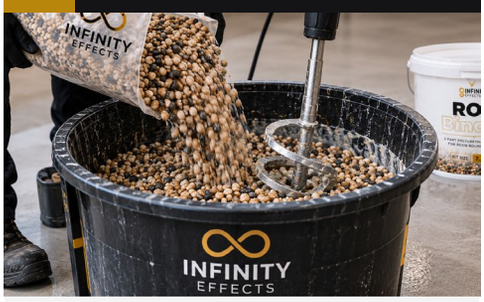
TYPICAL AGGREGATE



0.7 – 1.2 mm or 1–3 mm

Use completely kiln-dried decorative aggregate only.

01 ADD AGGREGATE TO MIXER



- Add the accurately measured decorative aggregate to a forced-action mixer.

02 ADD ROX BINDER



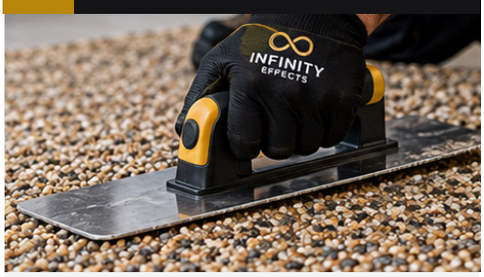
- Add the correctly measured ROX Binder evenly over the aggregate.
- Working batch range: 25–100 kg aggregate with 1.88–7.5 kg ROX Binder (Interior Grade).

03 MIX THOROUGHLY



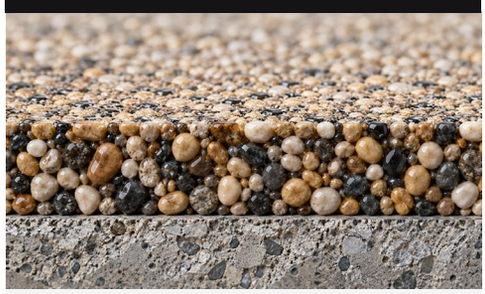
- Mix for approximately 60–90 SECONDS until all stone is uniformly coated.
- Do not overmix.

04 APPLY & TROWEL



- Discharge immediately.
- Spread evenly across the prepared floor.
- Maintain wet edges and compact thoroughly.

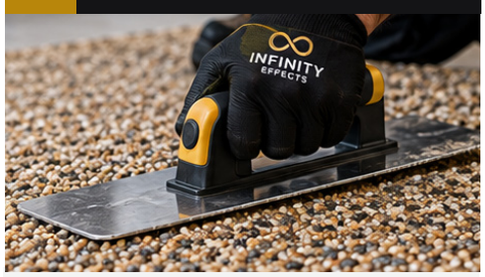
TYPICAL THICKNESS



↕ 8 – 10 MM

CONSISTENT THICKNESS
A PREMIUM FINISH

05 PERFECT THE SURFACE



- Use smooth, controlled trowel strokes.
- Maintain consistent thickness.
- Avoid excessive trowel pressure.
- Remove trowel marks while wet.
- Correct imperfections immediately.
- Create a uniform decorative stone appearance with crisp perimeter edges and no gaps or hollows.

NATURAL STONE.
EXCEPTIONAL SPACES.

LUXURY FINISHES | RESIDENTIAL INTERIORS | COMMERCIAL SPACES | SUSTAINABLE SURFACES

Stage 5 – Seal & Protect

Infinity Effects Stone Carpet Sealer is applied to the cured decorative Stone Carpet to reduce porosity, improve cleanability and provide additional protection to the finished internal surface.

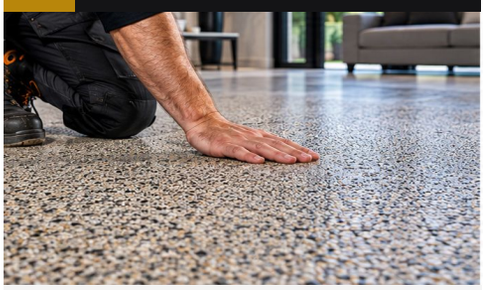
PROTECT. SEAL. ENHANCE.

A high-performance sealing system for a cleaner, stronger and longer lasting Stone Carpet finish.

- EASIER CLEANING
- STAIN RESISTANCE
- REDUCED POROSITY
- HIGHER DURABILITY
- PROTECTS THE STONE SURFACE



01 INSPECT THE STONE CARPET



- Ensure the Stone Carpet has cured correctly and is clean and free from contamination.

02 PREPARE SEALER



- Prepare Infinity Stone Carpet Sealer according to the current product TDS.

03 APPLY SEALER



- Apply evenly using a Rubber Grout Trowel.
- Typical coverage: 500 g/m².

BENEFITS OF STONE CARPET SEALER

- EASIER CLEANING
- STAIN RESISTANCE
- REDUCED POROSITY
- HIGHER DURABILITY
- PROTECTS THE STONE SURFACE

ALLOW TO FULLY CURE

Allow the Stone Carpet Sealer to fully cure before applying any optional topcoat or placing the floor into service.

OPTIONAL — R.S URETHANE WATER-BASED TOPCOAT

For enhanced performance and controlled final sheen, apply R.S Urethane Water-Based Topcoat where specified.



AVAILABLE FINISHES

- GLOSS
- SATIN
- MATTE

APPLICATION
Roller

TYPICAL COVERAGE
250 g/m²

ADDITIONAL BENEFITS

- Enhanced wear resistance
- Additional UV stability
- Antimicrobial protection
- Controlled final sheen
- Additional durability

NATURAL STONE.
EXCEPTIONAL SPACES.

- LUXURY FINISHES
- RESIDENTIAL INTERIORS
- COMMERCIAL SPACES
- SUSTAINABLE SURFACES

Stage 6 – Curing, Protection & Aftercare

Correct curing and protection are essential to achieve maximum performance and preserve the premium appearance of the finished Stone Carpet system.

BUILT TO LAST

Premium performance. Lasting beauty. With the right care, your Infinity Effects Stone Carpet floor will deliver years of durable, stylish and reliable service.

BEAUTIFUL FINISH | DURABLE SURFACES | LONG LASTING PERFORMANCE | SUSTAINABLE INTERIORS



01 INITIAL CURE



- Protect the freshly installed system from premature traffic and contamination.

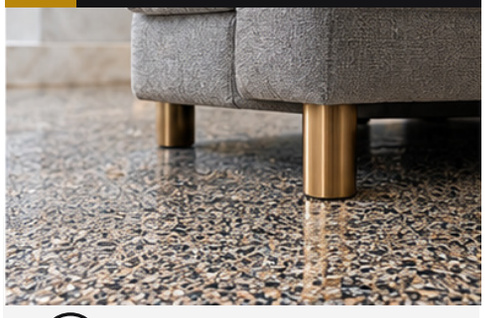
02 FOOT TRAFFIC



TYPICAL WALKABLE TIME

6 – 8 HOURS

03 FURNITURE



DO NOT PLACE FURNITURE UNTIL APPROXIMATELY

24 HOURS

04 RUGS & COVERINGS



DO NOT INSTALL RUGS OR FLOOR COVERINGS UNTIL

AFTER 72 HOURS

05 FULL CURE



TYPICAL FULL CHEMICAL CURE

5 – 7 DAYS

06 ROUTINE CLEANING & MAINTENANCE



- Regularly remove loose dirt and abrasive contamination.
- Clean using suitable non-aggressive cleaning products.
- Remove spills promptly.
- Protect the surface from inappropriate chemicals.

TYPICAL CURE TIMES

Walkable	6 – 8 hours
Furniture	24 hours
Rugs	72 hours
Full chemical cure	5 – 7 days

Cure times are dependent upon site conditions and the applicable individual product TDS.

KEY AFTERCARE TIPS

- Keep clean and free from abrasive debris
- Remove spills promptly
- Protect during initial cure
- Avoid harsh or incompatible chemicals
- Inspect periodically for wear or damage
- Maintain the sealed/topcoated surface as required.

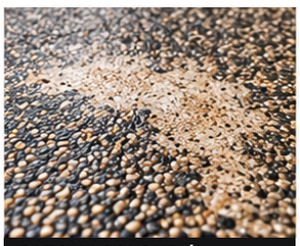


Troubleshooting & FAQs

Find solutions to common installation issues and answers to frequently asked questions about the Infinity Effects ROX Internal Stone Carpet System.

COMMON ISSUES & SOLUTIONS

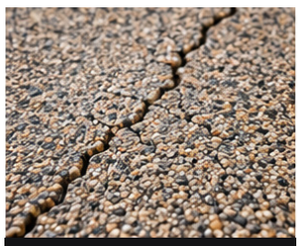
IDENTIFY. SOLVE. ACHIEVE.
A PERFECT FINISH.



PATCHY COLOUR / TEXTURE

Cause:
Uneven mixing or inconsistent binder ratio.

Solution:
Maintain accurate weights and consistent batch/mixing procedures.



REFLECTIVE CRACKING

Cause:
Movement within the underlying substrate or existing tile/joint lines.

Solution:
Ensure the substrate is stable and use CRM Movement Mesh where specified.



WHITENING / HAZE

Cause:
Moisture within or beneath the system.

Solution:
Do not install over damp or inadequately tested substrates.



LOOSE STONE

Cause:
Insufficient binder or incomplete coating.

Solution:
Maintain correct binder quantities and ensure uniform mixing.



ROUGH TROWEL FINISH

Cause:
Overworking or incorrect trowelling technique.

Solution:
Use controlled, light trowel pressure and correct the surface while workable.

FREQUENTLY ASKED QUESTIONS

ANSWERS FOR A SMOOTHER INSTALLATION.

Q Can the system be installed over existing tiles?

A Yes, where the tiles are sound, stable and correctly prepared. Loose/hollow tiles must be addressed and the surface degreased and mechanically deglazed.

Q Can it be installed over timber?

A Yes, where the timber substrate is suitable, rigid and stabilised. CRM Movement Mesh is recommended, particularly over timber floors.

Q What is the recommended Stone Carpet thickness?

A 8 – 10 mm.

Q Is CRM Movement Mesh always required?

A It is optional but recommended particularly over timber, tiled floors, repaired areas, large rooms, floating floors and vibrational zones.

Q Does the Stone Carpet require sealing?

A Yes. The supplied system includes Infinity Effects Stone Carpet Sealer after the decorative Stone Carpet layer.

Q Can the final sheen be changed?

A Yes. The optional R.S Urethane Water-Based Topcoat is specified in Gloss, Satin or Matte.

NEED MORE HELP?

For additional technical guidance, refer to the current individual product TDS/SDS or contact Infinity Effects Technical Support.

EXPERT SUPPORT.
PREMIUM RESULTS.



Installer Notes & Disclaimers

PROFESSIONAL INSTALLATION. LASTING RESULTS.

Important information for professional installers to ensure the best possible appearance, safety, durability and performance of the Infinity ROX Resin-Bound High-End Internal Stone Carpet System.

INSTALLER RESPONSIBILITY

- It is the responsibility of the installer to determine whether the selected Infinity ROX System 4 is suitable for the intended substrate, environment, application thickness and service conditions.
- Installers must follow this installation guide together with all current individual product TDS and SDS documents.

SITE CONDITIONS

Ensure all substrates are:
Sound | Stable | Clean | Dry | Properly Prepared | Free From Contamination

- Do not install onto damp, untested, contaminated or structurally unstable substrates.

TEMPERATURE & ENVIRONMENT

Maintain controlled internal installation conditions.
Recommended room conditions are:

15 – 25°C

Relative humidity **below 65%**

Temperature and humidity can affect working and curing times.

MIXING & APPLICATION

Always follow the specified:

- Mix ratios
- Aggregate quantities
- Mixing times
- Application procedure
- Installation thickness

Use a forced-action mixer for the Stone Carpet mix.

PERSONAL PROTECTION

- Always wear appropriate PPE.
- Refer to the current **Safety Data Sheets** for complete health, handling, storage and safety requirements.

EYE PROTECTION | HAND PROTECTION | RESPIRATORY PROTECTION | PROTECTIVE CLOTHING | SAFETY FOOTWEAR

MOVEMENT & SUBSTRATES

CRM Movement Mesh can help reduce reflective cracking and manage minor substrate movement; however, it does not compensate for a structurally unstable substrate.

Structural expansion and movement joints must not be bridged.

NATURAL AGGREGATE

- Natural decorative aggregate may display variations in colour, shade, size and appearance.
- Where visual consistency is critical, sufficient compatible material should be organised before installation begins.

MAINTENANCE

- Routine cleaning and correct maintenance will help retain the appearance and performance of the system.
- Avoid unsuitable aggressive chemicals and deal with contamination or spills promptly.

DISCLAIMER

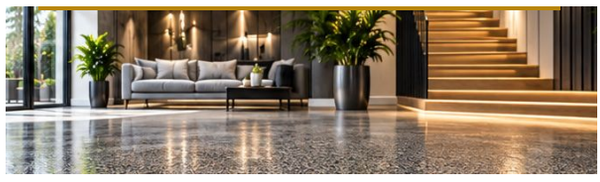
- The information provided in this document is given in good faith and is based upon the current Infinity Effects system specification, testing and experience.
- Site conditions, substrate construction, environmental conditions and workmanship are outside the control of Infinity Effects.
- Infinity Effects cannot be held responsible for loss, damage or system failure resulting from incorrect substrate preparation, excessive substrate moisture, structural movement, incorrect mixing, incorrect installation, incompatible materials or failure to follow the applicable product TDS and SDS documentation.
- The installer is responsible for confirming the suitability and compatibility of the complete system for the intended application.
- A suitable test area should be completed where substrate compatibility, appearance or performance is uncertain.
- Colour and appearance variations may occur between batches of natural decorative aggregate.
- Infinity Effects reserves the right to amend specifications without prior notice.
- This document supersedes previous versions.

FURTHER SUPPORT

For additional technical support, training or advice:

Infinity Effects Technical Support

+44 (0) 28 6632 3133
info@infinity-effects.com
infinityeffects.com



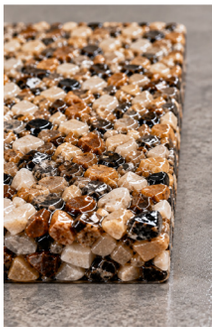


Technical Coverage & Application Guide

INFINITY HIGH-END INTERNAL STONE CARPET SYSTEM & SEALERS

This guide provides approximate material consumption and coverage rates for the Infinity High-End Internal Stone Carpet System, including the ROX Binder, Polyaspartic Pore Filler & Sealer and optional R.S Urethane Water-Based Overcoat.
Coverage will vary depending on aggregate size and shape, compaction, finished depth, surface profile and application technique.

1 ROX BINDER — STONE CARPET COVERAGE



1 – 3mm Aggregate

Angular or Rounded | Well Compacted

Using 4 bags of 1–3mm aggregate + 1 × 7kg ROX Binder Kit, approximate coverage is:

FINISHED DEPTH	APPROX. COVERAGE
8mm	6.0 m²
10mm	5.0 m²
12mm	Approx. 4.6 m²
15mm	4.0 m²
18mm	3.5 m²
21mm	3.0 m²



0.7 – 1.2mm Aggregate

Well Compacted

Using 4 bags of 0.7–1.2mm aggregate + 1 × 7kg ROX Binder Kit, approximate coverage is:

FINISHED DEPTH	APPROX. COVERAGE
8mm	6.0 m²
10mm	5.0 m²
12mm	Approx. 4.6 m²
15mm	4.0 m²
18mm	3.5 m²
21mm	3.0 m²

RECOMMENDED INSTALLATION DEPTH
For standard internal applications, Infinity Effects recommends installing at approximately 8–10mm finished depth. Greater depths may be specified depending on project requirements.

Installation below 8mm is not recommended.

2 POLYASPARTIC PORE FILLER & SEALER — 2-IN-1

5kg / 11lb | 2-Part | Thixotropic Polyaspartic | Gloss Finish



A high-performance 2-in-1 system designed to fill the interconnected pores within the Stone Carpet while simultaneously producing a hard, protective gloss sealer coat.

KEY BENEFITS

PORE FILLING · HARD GLOSS FINISH · CHEMICAL RESISTANT · STAIN RESISTANT · MOISTURE RESISTANT

The sealed system significantly reduces water transfer through the Stone Carpet by filling the interconnected surface pores and sealing the finished surface.

Available in Gloss only.

APPROXIMATE APPLICATION RATES

AGGREGATE SIZE	APPROX. CONSUMPTION
0.7 – 1.2mm	300 – 500 g/m²
1 – 3mm	500 – 800 g/m²
2 – 6mm & Larger	Trial Application Required

APPLICATION

Apply as thinly and evenly as possible using a rubber grout trowel, working the material thoroughly into the pores between the aggregate. Once evenly distributed, back-roll using a clean, dry, non-shedding roller to remove excess material and achieve a consistent sealed finish.

3 OPTIONAL R.S URETHANE WATER-BASED OVERCOAT



The R.S Urethane Water-Based Overcoat can be applied over the completed and sealed Stone Carpet system to control or alter the final sheen while providing an additional protective finish.

ADDITIONAL BENEFITS

ENHANCED WEAR RESISTANCE · ADDITIONAL UV STABILITY · ANTIMICROBIAL PROTECTION · CONTROLLED FINAL SHEEN · ADDITIONAL DURABILITY

AVAILABLE SHEEN'S

GLOSS · SATIN · MATTE

APPROXIMATE ROLLER APPLICATION RATES

AGGREGATE SIZE	APPROX. CONSUMPTION
0.7 – 1.2mm	Approx. 200 g/m²
1 – 3mm	Approx. 350 – 500 g/m²
Larger Aggregate	Trial Application Required

For larger aggregate sizes, carry out a trial application to establish actual consumption. Increased surface profile, ridges, voids and gaps between individual stones can significantly affect spread rate.

SPRAY APPLICATION

The R.S Urethane Water-Based Overcoat may alternatively be spray applied using suitable spray equipment. Spray application can provide a lighter, more controlled coating and may achieve an increased spread rate compared with roller application, depending on equipment, application rate and surface profile.

4 IMPORTANT — COVERAGE & SPREAD RATES

All figures stated are approximate practical coverage rates and are not guaranteed yields. Actual consumption can be affected by:

AGGREGATE SIZE · ANGULAR/ROUNDED · COMPACTION · INSTALL DEPTH · SURFACE PROFILE · POROSITY · SUBSTRATE COND. · APPLICATION · INSTALLER SKILL

- Allow for normal site variation and material wastage.
- For unusual/larger aggregate sizes, always trial first.