TECHNICAL DATA SHEET

PolyFuse MAX

HIGH-STRENGTH POLYASPARTIC REPAIR FILLER



PolyFuse MAX is a fast-curing, high-strength polyaspartic repair filler designed for fine cracks, damaged concrete, broken expansion joints, edges and general floor or wall repairs.

Its versatile formulation can be used as a standard 4:1 filler or bulked out with clean, completely dry sand to create a stronger repair mortar for larger cracks, deeper repairs and damaged concrete.

FIRE RESISTANT | FLEXIBLE | SANDABLE | FAST CURING | HIGH PERFORMANCE FILLER | PAINTABLE

STANDARD FILLER – FINE CRACKS & SMALL REPAIRS

Mix Part A and Part B at a 4:1 ratio by weight:

4 PARTS A : 1 PART B

Example:

- 400 g Part A
- 100 g Part B
- 500 g total mixed PolyFuse MAX

This consistency is ideal for:

- Fine-line cracks
- Small concrete repairs
- Expansion joint repairs
- Surface defects
- Edge repairs
- Filling small holes and voids

REPAIR MORTAR – LARGER & STRONGER REPAIRS

For larger cracks, deeper repairs, broken concrete edges or where a more substantial mortar consistency is required, clean, completely dry sand can be added up to the same weight as Part A.

The maximum mixing ratio is:

4 PARTS A : 1 PART B : 4 PARTS DRY SAND

Example:

- 400 g Part A
- Up to 400 g clean, dry sand
- 100 g Part B
- 900 g total repair mortar

Overall ratio: 4:1:4 by weight.

IMPORTANT MIXING ORDER: When adding sand, always mix the dry sand thoroughly into Part A first. Once the sand and Part A are completely and evenly combined, add Part B and mix thoroughly. Do not add the sand after Part B has been introduced, as the curing reaction will already have started and working time will be reduced.

The quantity of sand can be adjusted below the maximum depending on the consistency required. Less sand produces a smoother, more workable filler, while increasing the sand creates a heavier repair mortar suitable for deeper and stronger repairs.

IMPORTANT: Only use clean, completely dry sand. Moisture within the aggregate may interfere with the performance and cure of the resin system.

1. SURFACE PREPARATION

Remove all loose, weak or unsound material from the repair area. Ensure the sides and base of the crack, joint or repair are clean, sound and completely dry.

Remove grease, oil, dust and other contaminants using a suitable specified degreaser or solvent where required.

2. MIXING – STANDARD FILLER

For fine cracks and standard repairs:

1. Measure Part A and Part B at 4:1 by weight.
2. Thoroughly mix Part A.
3. Add Part B to Part A.
4. Mix thoroughly until completely uniform.
5. Apply immediately within the product's working time.

3. MIXING – SAND-FILLED REPAIR MORTAR

For larger or deeper repairs:

1. Measure the required amount of Part A.
2. Add clean, completely dry sand to Part A only, using up to the same weight of sand as Part A.
3. Thoroughly mix the sand and Part A together first until the sand is completely and evenly wetted throughout the resin.
4. Once uniform, add the correct quantity of Part B, maintaining the original 4:1 Part A to Part B ratio.
5. Mix thoroughly until completely uniform.
6. Apply immediately.

Example: 400 g Part A + up to 400 g sand — mix together first — then add 100 g Part B.

4. APPLICATION

Apply PolyFuse MAX within an ambient and substrate temperature range of approximately 0°C–30°C / 32°F–86°F.

Trowel the mixed material firmly into the crack, joint or damaged area, ensuring good contact with the prepared substrate and eliminating any air pockets or voids.

Finish and smooth the surface as required. Where masking tape is used, remove it promptly before the material cures and bonds to the tape.

Once fully cured, the repair can be sanded or mechanically prepared as required before applying compatible Infinity Effects coatings.

ADVANTAGES

Quick & Easy Repairs
PolyFuse MAX provides a straightforward method for repairing cracks, broken expansion joints and damaged concrete without complicated repair procedures.

Tough & Flexible
The polyaspartic formulation combines high strength with flexibility, making it suitable for demanding areas exposed to regular traffic, including forklift traffic when fully cured.

Versatile 4:1 System
Use PolyFuse MAX neat as a fine repair filler or add dry sand to Part A to transform it into a high-build repair mortar.

Fire Resistant
The formulation provides additional fire-resistant properties for use across a variety of environments.

Fast Curing
Wall repairs can typically be ready for overcoating in approximately 45–60 minutes, depending on temperature and conditions. Allow approximately 8–10 hours before vehicle traffic on floor repairs.

Sandable & Paintable
PolyFuse MAX cures to a tough yet workable finish that can be sanded flat once cured and subsequently overcoated with compatible Infinity Effects coating systems.

Ideal for Damaged Edges & Joints
PolyFuse MAX can be used to rebuild damaged concrete edges and repair broken joints without the need for complex reforming in many applications.

USES

PolyFuse MAX is suitable for repairing and filling a wide range of areas:

- **Fine cracks in concrete floors and walls**
- **Broken and damaged expansion joints**
- **Damaged concrete edges and corners**
- **Surface defects, holes and voids**
- **Industrial, commercial and residential environments**
- **Internal and external applications**

SAFETY INFORMATION

Eyes	Do not rub your eyes, rinse them with water immediately.
Skin	Wash with soap and water.
Inhalation	If breathing is difficult, transfer to fresh air. If symptoms persist, seek medical attention.

STORAGE & SHELF LIFE

Store in a cool, dry place away from direct sunlight.

Shelf Life: 12 months in unopened containers.

Scan for Technical Data Sheet (TDS): visit infinity-effects.com or contact your Infinity Effects representative.

DISCLAIMER: Customers are advised to thoroughly read and adhere to the instructions provided to ensure the optimum finish and performance of our products. The information presented is based on results gained from experience and tests and is believed to be accurate. However, we do not accept liability for any loss or damage attributable to reliance on this information, as conditions of use may lie outside our control. Any deviation by the user from these instructions may affect the performance of the products, and therefore, such actions are not advised. In such circumstances, Infinity Effects will not be held responsible. Users should always conduct sufficient tests to establish the suitability of any products for their intended applications. While we strive to ensure consistency of color in production, slight variations in shade may occur from batch to batch.

Note: If you are unsure about the compatibility of Infinity Effects Coating with the substrate surface, we strongly recommend conducting a small test in a discreet area before applying it to the entire floor. This precaution will help ensure a successful and satisfactory outcome.