

Shieldrep ER60

Solvent-free, Epoxy Paste and Repair



Description

Shieldrep ER60 is a two-component, solvent-free, epoxy paste and repair material, formulated to be used as a thixotropic paste and putty for horizontal, vertical and overhead applications.

Uses

- Indoor and outdoor applications.
- Filling cracks, scratches, and holes in floors, walls, and ceilings.
- As a repair and putty giving a smooth finish to many substrates such as:
 - Concrete and stone.
 - Precast concrete elements.
 - Mortars and ceramics.
 - Steel and metal.

Characteristics / Advantages

- Excellent adhesion strength to various substrates.
- Versatile and easy in application.
- Provides very smooth surface finishes.
- Provides durable and long-lasting repair.
- Excellent mechanical properties.
- Thixotropic properties, ideal for vertical applications.
- Resistant to water and chemicals.
- Impact resistant.

Packaging

Shieldrep ER60 is supplied in 5 kg packs.

Safety Instructions

The application should be done in a well-ventilated area with adequate air circulation, away from any heat source, and ensure having gloves, eye protection, masks, and protective clothing. Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. Dispose of any leftover epoxy and waste materials according to local regulations. For further information, refer to the Material Safety Data Sheet.

Typical Properties

Appearance/ Color	Grey Paste
Mixed Density (@ 23°C)	1.65 ± 0.10 g/ml
Working Time	45 – 60 minutes
Application Thickness	Up to 6 mm
Mixing Ratio (B:H)	4 : 1
Solid Content	100%
Full Cure (@ 23°C)	7 days
Bond Strength (ASTM D4541) @7 days	≥ 3 MPa concrete failure
Compressive Strength (ASTM C579) @7 days	> 75 MPa
Flexural Strength (BS 6319-3) @7 days	23 MPa
Tensile Strength (BS 6319-7) @7 days	> 12 MPa
Shore D Hardness (ASTM D2240) @7 days	> 75
VOC (ASTM D2369)	< 30 g/L
Application Temperature	10 – 40 °C

Shelf Life and Storage

Shieldrep ER60 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture.

Shelf life may be reduced if the recommended storage conditions are not followed.

Application Instructions

1. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, and any materials that may reduce bond or prevent adhesion of the putty. Surface laitance should be removed by light scabbling or grit blasting to provide a roughened key.

Metal surfaces should be roughened and sanded by grinding or abrasion.

2. Mixing

Shieldrep ER60 is a two-component putty and paste, mix **Component B** (hardener pack) and **Component A** (base pack) together using a low-speed mixing drill for 3 minutes while reaching the walls and the bottom of the container until a homogeneous and consistent material is obtained. Once mixed, the material should be used within its specific pot life.

3. Application

Apply the mixed material of **Shieldrep ER60** to the prepared surface using a steel float, trowel, or spatula at a thickness of up to 6 mm.

For bonding different substrates together, **Shieldrep ER60** should be applied to both sections until the initial setting to ensure optimum adhesion strength.

4. Cleaning

Clean the tools and any uncured material using a suitable solvent. Hardened material should be removed mechanically.

Consumption

1.65 – 1.75 kg/m² per mm thickness.
Consumption and coverage rates may vary due to site wastage and substrate condition/profile.

Limitations

- Do not apply the product if the ambient temperature is less than 10°C.
- Not recommended to apply directly to painted surfaces.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing.
- Do not apply on polyethylene, polypropylene, or PTFE or PVC.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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