

**Patch Epoxy 111** is a three component, solvent free epoxy resin, high strength mortar. It is a high strength material with no shrinkage. It is suitable as a bedding for repair of both horizontal and vertical surfaces. It is ideal for industrial walls and floors, cracks arising in roads, bridge decks, patch repair works, airport runways, sidewalks, parking floors, precast units, manhole benching etc.

## ADVANTAGES

- ✓ Solvent free.
- ✓ Excellent chemical resistance.
- ✓ Can be used as a bedding mortar and structural repair mortar.
- ✓ Rapid hardening.
- ✓ High mechanical strength.
- ✓ Curing is not affected by high humidity.
- ✓ Abrasion and impact resistant.
- ✓ Vibration resistant.

## TECHNICAL DETAILS

| Property                | Test Method | Value   |
|-------------------------|-------------|---|
| Component               | -           | Three: Part A: Base<br>Part B: Hardener<br>Part C: Filler       |
| Mixed Form              | -           | Mortar  |
| Color                   | -           | Grey  |
| Mixed Density           | ASTM D 1475 | 2.20 kg / Ltr ± 0.05  |
| Pot life                | -           | 45 ± 10 mins  |
| Compressive Strength    | BS 6319-2   | 85 N/mm <sup>2</sup> @ 7 Days                                   |
| Flexural Strength       | BS 6319-3   | 20 N/mm <sup>2</sup> @ 7 Days                                   |
| Tensile Strength        | BS 6319-7   | 12 N/mm <sup>2</sup> @ 7 Days                                   |
| Bond Strength           | ASTM D 4541 | >2 N/mm <sup>2</sup> @ 7 Days                                   |
| Application Temperature | -           | +5°C to +40°C   |
| Chemical Resistance     | ASTM D 543  | Resistant to a range of Alkalis,<br>Solvents, acids, fuels etc. |

\*Typical results under laboratory conditions.

## SURFACE PREPARATION

Cut back edges at right angles avoiding feather edges to a depth of at least 5mm. Surfaces should be dry, clean, free from standing water, grease, curing compounds, mold oils and loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding. Steel surfaces should be grit blasted to white metal.



## MIXING AND APPLICATION

Empty the entire contents of hardener into base container and mix thoroughly with a slow speed heavy duty drill attached with a mixing paddle for 1 minute. Slowly add the filler into the mixed epoxy resin and continue mixing until a uniform mix is achieved, addition of water in the mix can be done to adjust consistency of the material as it is water diluted. Once material is mixed properly, as per the requirement, application should be done using the appropriate tools. For large volumes, apply in layers ensuring the previous layers have hardened and cooled. Application thickness of the material can be anywhere from 3mm to 40mm in a single layer.

## PACKAGING

**Patch Epoxy 111** is available in Kit Forms:

Small Kit: Part A: 250ml Part B: 250ml Part C: 2KG  
Large Kit: Part A: 2.5L Part B: 2.5L Part C: 20KG

## HEALTH AND SAFETY

**Patch Epoxy 111** is not regarded hazardous for transportation. Do not reuse the packaging and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please refer to the MSDS of the product for further health and safety information.



**RESSICHEM**<sup>®</sup>  
adding life and value to your property

## NOTE:

If printed packaging not available, neutral packaging with label. Lot number and manufacturing date to be stamped at the back of each packaging.



PRINTED



UNIVERSAL