

# Rapid Set 45

## Packaging



## Mixing



## Application



## Uses



## Substrates

Concrete  
Brick, Block  
Rendered walls

## Non-slump, fast-set, patching and repair compound

### Description

A fast-setting, non-slump, cement patching and repair compound.

### Uses

A fast-set, patching repair compound for internal repairs of concrete and masonry surfaces (cement render brick and block). Typical applications are; repairing concrete stairs; patching holes in floors and walls and for forming falls from feather edge to 45mm and for forming coves. Patching and filling different floor levels and repairing around windows, doors, pipes etc. Can be fortified with **Elastabond** to improve durability.

### Features

- Develops high strength
- Low shrinkage
- Good bond to masonry surfaces
- Sets in 1 hour

### Performance Data

	1 Day	28 Days
<b>Compression Strength</b> (BS4551) MPa	18.0	31.0
<b>Tensile Strength</b> (BS4551) MPa	4.0	6.0
<b>Hardness</b> (Brinell) MPa	54	78

### Coverage (Approximate)

1.5kg/m<sup>2</sup> per 1mm thickness

### Specification

The repair compound will be a non-slump, fast-setting, polymer-modified cement system with a compressive strength of 31MPa, such as **Rapid Set 45**, manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturer's application instructions.

### Surface Preparation

Surfaces must be firm and clean, free from dust, waxes, oil, grease, paint, excessive water and other contaminants. Smooth and contaminated surfaces must be mechanically roughened, washed thoroughly and allowed to dry. Priming sound, uncontaminated concrete or brickwork is not normally required, but it is recommended to prime:

- smooth, internal surfaces with **Super Prime** or **Primax**
- porous, internal surfaces with **Primebond**
- floors subject to rising damp with **Epecrete**.

### Mixing

Place 4.5 litres of water in a mixing container and add the 20kg of powder while stirring continuously. Mix thoroughly until a lump free, slump free mixture is obtained. Avoid using excessive water. Mix and place in 10-15 minutes at 20°C.

### Application

When exceeding thicknesses of 20mm add 1/3 sharp washed sand up to 45mm. When filling holes and cracks, leave the patch slightly proud and trim off the excess after 15 minutes and finish with a wet trowel. Apply in temperatures 10°C - 30°C.

### Set Time

Approximately 1 hour, depending on temperature, humidity and surface porosity.

### Curing

Curing is not normally required, but in hot, dry conditions, moist cure for 24 hours.

### Limitations

**Rapid Set 45** is intended for interior use only. Do not use in areas subject to standing water. Do not install on substrate of ambient temperatures below 10°C.

### Precautions

Non-toxic, but contains cement which contains silica. Wear gloves and appropriate respirator. Further information for this product is contained in the Safety Data Sheet. Refer; [www.constructionchemicals.com.au](http://www.constructionchemicals.com.au)

### Shelf Life

1 year