

# SmartShear Key Grout

## Dry Mixed Cementitious Grout

**SmartShear Key Grout** is a pre-packed cement based grout that replaces the traditional on site mixes of cement and sand. It is recommended for jointing of hollow core slab. It contains cement, graded sand and chemical additives giving the user an easily workable wet mix.



### FIELDS OF APPLICATION

- Hollow Core Slab
- Suitable for interior and exterior application

### BENEFITS

- Excellent strength and crack control
- Suitable workability with extended working time
- Excellent flow consistency with recommend water addition
- Consistent factory quality controlled product

### TECHNICAL DATA (under laboratory conditions)

PROPERTY	TYPICAL RESULTS
Compressive Strength (ASTM C109 : 1995) @ 28 days	> 25 N/mm <sup>2</sup>
Working Time	60 minutes
Mixing Ratio	6.8 litres of water Per 40 kg
Dry Powder Density	Approx. 1650 kg/m <sup>3</sup>

### SURFACE PREPARATION

- Joints to be grouted should be free of unsound material, oil, grease or other contaminants.
- Defective and unsound substrates has to be repaired prior to application.
- This procedure is highly recommended for facilitating a Wet to Wet adhesion of cementitious grout onto jointing areas. However, do not allow ponding water; use a sponge to soak up excess water.

### MIXING

- Add a 40 kg bag of **SmartShear Key Grout** to about 6.8 litres of clean water in a large pail. Continue mixing for 3 - 5 minutes. Ensure that the mix is homogeneous and free of lump. A consistent workable mix should be obtained.

Alternatively we recommend :

- Using mechanical power drill for mixing small quantity
- Using drum mixer for mixing large quantity

### PLACING

- Install formwork for pouring or hand patch the bottom gap between joints of hollow core slab
- Use a vibrator to compact the grout
- Finish level shall be 10 - 20mm below the top of slab depending on thickness of slab
- For vertical grouting, use less water in mixing to obtain a drier mix for non sagging consistency.

### PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of water. Seek medical help immediately.

### PACKAGING & STORAGE

**SmartShear Key Grout** is supplied in 40 kg bags and has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

### DISCLAIMER

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