

# SikaGrout® -210/214

Expanding Mortars, Cement Based

Construction

**Description** □ A range of ready mixed cement grouts that expand in two stages to sufficiently □ □  
□ counteract the plastic shrinkage normally associated with cement grouts. Two different □  
□ grades with different reaction speeds are available.

**Uses** □ Sika Grout Castable Mortars are used for grouting in the following locations:  
□ -Machine foundations,  
□ -Columns in pre-cast construction,  
□ -Concrete anchors,  
□ -Cavities, gaps and recesses,  
□ -Bearing plates.

**Advantages** □ Sika Grout Castable Mortars are economical and easy to use materials requiring the □  
□ simple addition of water. They offer following properties :  
□ -Easy to mix and apply,  
□ -Good flow characteristics,  
□ -Rapid strength development,  
□ -Adjustable consistency,  
□ -High final strengths,  
□ -Impact and vibration resistant,  
□ -Non corrosive, non toxic.

## Technical Data

**Type** □ Powder

**Colour** □ Grey

**Storage** □ Store in dry conditions

**Packaging** □ 25 kg bags.

**Shelf life** □ 6 months from date of production if stored properly in original unopened packaging.

## Physical Data

**Density (20°C)** □ Bulk: □ 1,5 kg/l  
□ Specific: □ 2,2 kg/l

**Mechanical strengths** □ □ □ SikaGrout 210; 10°C □ SikaGrout 214; 20°C  
(28 days) □ □

□ Compressive Strength □ ~ 60 N/mm<sup>2</sup> □ ~ 65 N/mm<sup>2</sup> □ □  
□ Flexural strength □ ~ 10 N/mm<sup>2</sup> □ ~ 10 N/mm<sup>2</sup>

**Modulus of elasticity** □ 37.000 N/mm<sup>2</sup>  
(static) □

**Expansion (after 28 days)** □ 0,25 - 0,50 %

**Coefficient of thermal** □ 12.10<sup>-6</sup> Per°C  
**expansion**



**Application****Coverage** □ Average: 2.0 kg powder Per 1 litre mortar.**Surface preparation** □ Concrete surface should be clean, sound and free from oil, grease, cement laitance □ and all loosely adhering particles. Metal surfaces (iron and steel) should be free from □ scale, rust, oil and grease. Absorbent surfaces should be saturated thoroughly.**Choice of mortar grade** □ The choice of mortar grade depends on ambient temperature, desired rate of strength □ development and workability time available.  
□ Approx. □ 0°C-15°C SikaGrout 210  
□ □ > 15°C SikaGrout 214  
□ N.B. When using a particular grade at a temperature higher than recommended the □ □ working time will be reduced. Similarly when using in a lower range strength gain will □ be retarded.**Mixing** □ Water is added to the pre-mixed powder to suit the consistency required, usually □ 3 □ or 3,5 litres (at elevated temp. Up to 3,75 litres) Per 25 kg. Mix mechanically with □ □ a □ low speed drill (max. 500 RPM), until a smooth even consistency is achieved.**Application** □ Pour mortar immediately after mixing. Ensure that air displaced by the grout is allowed □ to escape. When carrying out base plate grouting ensure sufficient head of pressure □ is maintained to keep mortar flowing. Exposed part of the mortar surface should be □ kept as small as possible.**Curing** □ Treat exposed surfaces with Antisol E curing compound or use other approved curing □ methods.**Important** □ -□ Use SikaGrout for grouting only.  
□ -□ Minimum width of gap = 10 mm Maximum layer thickness per pour: 30 mm**Safety Instructions****Safety precautions** □ Wear gloves and goggles. In contact with eyes or skin product may cause irritation.**Ecology** □ In liquid state can contaminate water  
□ Do not dispose of into water or soil but according to local regulations.**Toxicity** □ Non-toxic.**Transport** □ Non-hazardous.**Technical data sheet and label instructions have the priority.**

The explanations given in the data sheet are correct and reliable as far as we know and they are in connection with our documentation. In case of applications beyond our control, our warranty is only valid in respect of the quality of the sold product. Our company reserves the right to make changes to the product formulations under the light of our new R&D studies. This technical data sheet is valid until a new one is printed and supersedes all of the former editions.

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