

# SikaGrout® P

## Pumpable non-shrink cementitious grout

---

### Product Description

SikaGrout® P is a pumpable shrinkage-compensated self-levelling, cementitious grouting mortar.

---

### Uses

SikaGrout® P is recommended for the following repairs to concrete:

- Cavities
- Gaps
- Recesses
- Honeycombs

---

### Characteristics / Advantages

- Easy to mix and apply
- High early and ultimate strengths
- Good flow characteristics
- Extended working time
- Dense and shrinkage compensated
- Non-toxic and non-corrosive
- Chloride and iron free
- Impact and vibration resistant

---

### Product Data

---

#### Form

**Appearance / Colour** Grey premixed powder

**Packaging** 25 kg bags

---

#### Storage

**Storage Conditions / Shelf Life** 6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. Keep away from direct sunlight.

---

#### Technical Data

**Density** ~ 2.1 kg/ltr (mixed)

**Aggregate Size** 0.4 mm maximum



## Mechanical / Physical Properties

### Typical Results

Test	Results
Flow cone (ASTM C 939-93)	20 seconds
Air	1.4 %
Expansion at 1 day	0.5 %
Setting time (Vicat needle)	Initial Final
	5 h : 20 m 7 h : 00 m
Compressive strength at +25° C (ASTM C 942-91)	1 day 3 days 7 days 28 days
	~24 N/mm <sup>2</sup> ~38 N/mm <sup>2</sup> ~42 N/mm <sup>2</sup> ~55 N/mm <sup>2</sup>

## System Information

### Application Details

#### Typical Yield

SikaGrout® P	1.74 kg	25 kg	70 x 25 kg bag
Water	0.38 ltr	5.5 ltr	380 ltr
Volume mortar	1 ltr	14.4 ltr	1 m <sup>3</sup>

#### Substrate Preparation

Concrete surfaces should be clean, sound and free from oil, grease, laitance and loosely adhering particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

All absorbent surfaces must be well saturated with clean water, but free off any surface water or puddles prior to the application of SikaGrout® P.

Where prepacked aggregate technique is used, fill the voids with water applying pressure to ensure the formwork is leak proof and to saturate fully the aggregates. Drain the water out at least 1 hour prior to start of operation.

### Application Instructions

#### Mixing Ratio

5.5 – 5.8 ltr of water per 25 kg of grout

#### Mixing

Place about 70 – 80 % of the premeasured clean water into a clean container and gradually add the whole bag of SikaGrout® P into it while continuously mixing. Add the remaining water until the desired consistency is obtained (do not add more than the recommended quantity). Mix for 2 – 3 minutes with a low speed drill (maximum 500 rpm).

#### Application Method / Tools

SikaGrout® P can be placed by either manual gravity or by pump.

##### *Manual Gravity Placement*

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork.

##### *Pump Placement*

SikaGrout® P can be pumped using most types of cement grout pumps available in the market. After mixing, pour SikaGrout® P into the pump hopper through a 5 mm sieve to eliminate any lumps or debris that can jam-up the pump. Keep the hopper full while pumping as not to draw in air. Maintain a mild agitation during the pumping process.

#### Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

## Notes on Application / Limitations

- Minimum thickness per pour 1 – 2 mm
- Maximum thickness per pour 10 – 15 mm
- Minimum application temperature +10° C

Note: At temperatures below +20° C, setting time and strength development will be slower.

## Curing Details

### Curing

Keep the formwork in place for as long as practically possible but not less than 3 days after repair/grouting. After removal of formwork, cure SikaGrout® P with Antisol®-E curing compound or use other approved curing method.

## Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available on request) containing physical, ecological, toxicological and other safety-related data.

## Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Sika Kimia Sdn Bhd  
 Lot 689 Nilai Industrial Estate  
 71800 Nilai, Negeri Sembilan DK  
 MALAYSIA

Phone: +6 06 799 1762  
 Fax: +6 06 799 1980  
 e-mail: [info@my.sika.com](mailto:info@my.sika.com)  
[www.sika.com.my](http://www.sika.com.my)

