# SikaGrout® -212 HP

**High Early Strength and High Performance Non-Shrink Grout**

## Product Description

SikaGrout® -212 HP is a ready to use, shrinkage compensated, non-ferrous, high early strength, self-levelling, bearing grout. Pre-mixed and selectively graded materials result in a dense homogenous mix.

## Uses

SikaGrout® -212 HP is designed to counteract the normal shrinkage of mortar and concrete and to absorb and minimize the effects of vibration on foundations. The high early strength property is suitable for work that requires early loads including machinery bases, structural columns, prestressed girders, bridge bearings, rail posts and seatings bolts etc.

## Characteristics / Advantages

- Excellent flowability
- Good dimensional stability
- Controlled expansion
- Contains no added chlorides; will not rust, bleed, or harm metal on contact
- High early compressive strength; allows earlier loading and minimizes costs
- High early strength produces minimal downtime for maintenance and repairs
- Non-toxic, non-corrosive
- Ready and easy to use
- Economical

## Form

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Packaging</td>
<td>25 kg / bag</td>
</tr>
</tbody>
</table>

## Storage

<table>
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<th>Storage Conditions</th>
<th>Keep in unopened, undamaged original packaging and protected from direct sunshine in dry condition.</th>
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<td>Shelf Life</td>
<td>6 months</td>
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**Product Data Sheet**

Version 16/11/2015

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Technical Data

Coverage
Approx. 2 kg of powder for one litre of mortar

Bulk Density
~1.50 kg / l

Consumption
For 1 m$^3$ of mortar approx. 77 x 25 kg bags and 260 litres of water

Instruction of Use

Surface Preparation
Concrete surfaces should be clean, sound and free from oil, greases, laitance and loose particles.

Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

Absorbent substrates must be saturated thoroughly, but no standing water.

Mixing
Powder should be added to the pre-gauged water to suit the desired consistency.

3.375 - 3.50 litres of water are used at 30°C ambient temperature to obtain a free flowing and self-levelling grout.

Mix mechanically with a low speed drill (max. 500 RPM) with a disc agitator attached, until a smooth, even consistency is achieved.

Application
Pour mortar after mixing. Ensure that air entrapped into the grout is allowed to escape. Then carrying out baseplate grouting, ensure sufficient head of pressure is maintained to keep mortar flow uninterrupted. Make sure, that necessary formwork is firmly in place and watertight. Use chains, rods, or tampon devices to compact grout tightly, completely removing all air voids.

Cleaning
Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.

Important
- Min. gap 10 mm. Max. gap 50 mm.
- Handle SikaGrout®-212 HP like concrete regarding protection against temperatures and weather.
- Exposed finished grout must be cured; use sheeting water or Antisol® E
- Do not add any cement or any other additives to SikaGrout®-212 HP.
- Do not retemper grout after initial set.

Notes on Application / Limitations
- Not to be used for overlay or repair works in unconfined spaces
- Refer to the Method Statements for Cementitious Grouts for more information
- Non-shrink definition as per ASTM C1107 applies
- Avoid application in direct sun and/or strong wind
- Do not add water over recommended dosage
- Apply only to sound, prepared substrate

Performance

<table>
<thead>
<tr>
<th>Water Content (%)</th>
<th>Consistency (J rate)</th>
<th>Bleeding</th>
<th>Compressive Strengths / (kgf / cm$^2$)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 hours</td>
</tr>
<tr>
<td>13.5</td>
<td>&lt;20 seconds</td>
<td>0</td>
<td>300</td>
</tr>
<tr>
<td>14</td>
<td>&lt;15 seconds</td>
<td>0</td>
<td>200</td>
</tr>
</tbody>
</table>

Note: Test at 28°C in lab condition
## Grouting of Machine Beds

Prewet thoroughly, no standing water in bolt holes. If possible, grout anchor bolts first, then the mortar bed in a second operation. Ensure continuous flow of mortar. Distance between anchor bolt and substrate to be at least 3 x max. diameter of mortar aggregates (approx. 10 mm.)

## Grouting of Base Plates

Prewetting for approx. 24 hrs, no standing water. Maintain constant hydro-static pressure to ensure continuous flow. Use cable or chain to make sure that all cavities are filled. Make sure that entrapped air can escape.