

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-900 (HGG 100)

(formerly Davco<sup>®</sup> High Grade Grout 100)

### HIGH STRENGTH SHRINKAGE COMPENSATED CEMENTITIOUS GROUT



#### DESCRIPTION

SikaGrout<sup>®</sup>-900 (HGG 100) is a premium high strength cementitious non-shrink grout, specially designed for high strength grouting of columns, beams and all types of concrete structures.

It is formulated with selected additives and fillers to provide a shrinkage-compensated free-flowing grout with high strength performance.

#### USES

SikaGrout<sup>®</sup>-900 (HGG 100) can be used in all grouting situations where shrinkage is undesirable and high grout strength is required. Primary uses for SikaGrout<sup>®</sup>-900 (HGG 100) are : filling and grouting applications where complete filling of voids with a high strength non-shrink material is required.

It can also be used for spiral connector and underplate grouting, repairs to precast concrete, anchor bolt fixing, cable grouting and crane rail assembly.

#### CHARACTERISTICS / ADVANTAGES

- High flowability characteristic.
- Consistent quality as all ingredients are premixed in the factory.
- High early and ultimate strengths.
- Eliminates shrinkage and bleeding
- Increased strength when fully restrained.

#### APPROVALS / STANDARDS

Certified by the Singapore Green Building Council (SGBC) - Cert No. SGBP 3614

#### PRODUCT INFORMATION

|                     |  |
|---------------------|--|
| Packaging           | 25 kg/bag  |
| Appearance / Colour | Grey powder  |
| Shelf Life          | 12 months from the date of production  |
| Storage Conditions  | Store properly in original, unopened and undamaged containers in dry conditions. Keep away from direct sunlight and frost. |

#### TECHNICAL INFORMATION

|                      |                         |         |                    |
|----------------------|-------------------------|---------|--------------------|
| Compressive Strength | ≥ 70 N/mm <sup>2</sup>  | 7 days  | (ASTM C942 : 2015) |
|                      | ≥ 100 N/mm <sup>2</sup> | 28 days |                    |
| Shrinkage            | 0% @ 28 days            |         | (ASTM C940:2016)   |
| Expansion            | ≤ 0.4% @ 3 days         |         | (ASTM C940:2016)   |

## APPLICATION INFORMATION

|                   |                             |                                   |
|-------------------|-----------------------------|-----------------------------------|
| Mixing Ratio      | Flowable Consistency        | 3.8 - 4.6 litres water per bag    |
| Yield             | ~ 0.012 m <sup>3</sup> /bag |                                   |
| Pot Life          | 30 - 45 min                 | (Depending on weather condition)  |
| Flowability       | 10 - 30 sec                 |                                   |
| Final Set Time    | ≤ 10 hours                  | (ASTM C953 : 2010)                |
| Curing Conditions | Holding Pressure            | 10 psi / min, or site requirement |

## BASIS OF PRODUCT DATA

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.

## ECOLOGY, HEALTH AND SAFETY

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

## SURFACE PREPARATION

All surfaces must be cleaned, and free of oil, dust, dirt, paint, curing compound etc. Thoroughly damp all surfaces before starting and keep in a moist condition during placing.

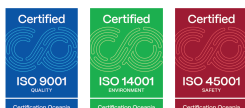
## MIXING

Dampen the electric mixer blades with water prior to mixing the initial batch of SikaGrout®-900 (HGG 100). Ensure that the mixer is free of standing water. *Flowable consistency*, first pour 80% of the volume in a clean mixing container. Slowly add the powder & mix continuously to uniform consistency. Add the balance amount of water while continuing to mix for 3 to 5 minutes until a homogeneous consistent grout is achieved.

## APPLICATION

The formwork shall be constructed to be leak-proof by using foam rubber strips or mastic sealant beneath the constructed formwork and between joints. After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. Pour the mixed grout within 10–15 minutes after mixing.

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### *Grouting Large Volumes*

For grouting thickness greater than 50 mm, the addition of clean well-graded 10 mm aggregates is recommended to reduce temperature rise. As a guide use a maximum of one part aggregate to one part of grout by weight. Conventional concrete pan mixers and pumps can be used for mixing and placement. A site trial should be conducted to determine the appropriate ratios of grout, aggregate and water.

## APPLICATION METHOD / TOOLS

SikaGrout®-900 (HGG 100) may be placed using piston or diaphragm type grout pumps fitted with ball valves.

## CURING TREATMENT

Immediately after finishing, exposed area should be thoroughly cured with water, or curing compound.

## 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.

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