

## PRODUCT DATA SHEET

# SikaGrout®-525

(formerly MFlow 525)

High Flowability, High Strength shrinkage compensated cementitious precision grout

### DESCRIPTION

SikaGrout®-525 is a powder blend for easy production of a pourable to exceptionally fluid, slightly expansive, Portland cement grout by addition of potable water only

### USES

SikaGrout®-525 is suitable for but not limited to the grouting of:

- Structural Columns.
- Machine bases.
- Holding down bolts.
- Dowel and starter bars.
- Bridge bearings.
- Underpinning and repairs.
- Filling cavities in concrete or steel sections.

### CHARACTERISTICS / ADVANTAGES

SikaGrout®-525 exhibits excellence in various fresh and hardened state properties:

- Excellent initial and retained fluidity.
- Cohesion and suspension of aggregates.
- Non-bleeding, void free bearing surface.
- Excellent strength development.
- Corrosion inhibition (non-chloride)
- Controlled expansion and shrinkage compensation mechanisms.
- Exceptional tortuous path flow.
- Allows for easy precise placement when difficult accessible grouting is required.

### PRODUCT INFORMATION

Chemical Base

Cement, selected fillers and aggregates, special additives

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|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| Packaging          | 20kg Bags                                                                            |
| Shelf Life         | 12 months from date of production                                                    |
| Storage Conditions | Store properly in dry conditions in undamaged and unopened original sealed packaging |
| Density            | ~2.2 kg/l (fresh density)                                                            |
| Maximum Grain Size | D <sub>max</sub> : 2.4 mm                                                            |

## TECHNICAL INFORMATION

|                             |                                 |                                  |                                    |            |
|-----------------------------|---------------------------------|----------------------------------|------------------------------------|------------|
| Compressive Strength        | 1 days<br>~20 MPa               | 7 days<br>~50 MPa                | 28 days<br>~70 MPa                 | (EN 196-1) |
| Tensile Strength in Flexure | Ambient temperature +24°C       |                                  |                                    |            |
|                             | 1 day<br>~2.0 N/mm <sup>2</sup> | 7 days<br>~6.0 N/mm <sup>2</sup> | 28 days<br>~8.02 N/mm <sup>2</sup> |            |
| Expansion                   | Free Expansion                  |                                  |                                    |            |
|                             | Plastic                         |                                  | up to 0.5% (linear)                |            |
|                             | Hardened                        |                                  | up to 0.5% (linear)                |            |

## APPLICATION INFORMATION

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Mixing Ratio            | 14.4% by weight - Max. 3.6 litres of water per 20 kg bag                 |
| Consumption             | As a guide, ~20 kg of powder per 10 mm thickness for each m <sup>2</sup> |
| Yield                   | 1 bag yields approximately ~10.7 l of mortar                             |
| Layer Thickness         | Minimum 10 mm/ maximum 150 mm                                            |
| Ambient Air Temperature | +5°C min. / +35°C max.                                                   |
| Substrate Temperature   | +5°C min. / +30°C max.                                                   |
| Pot Life                | ~45 minutes at 24 °C                                                     |
| Fresh mortar density    | ~2.3kg/l (density of fresh mortar)                                       |

## 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.

## USES

- Not to be used as an overlay in unconfined spaces
- Not to be used as a hand applied patch repair
- Refer to the Sika Method Statement for more information
- Avoid application in direct sun and/or strong wind or high temperatures
- Do not add water over recommended dosage
- Apply only to sound, prepared substrate
- Do not add additional water after application as this may cause cracking
- Protect freshly applied material from freezing and frost
- Keep exposed surfaces to a minimum
- Do not vibrate

## ECOLOGY HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The concrete shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction.

### MIXING

Pour the water in the recommended proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix with low speed (< 500 rpm) hand drill mixer to avoid entraining too much air. Mix thoroughly at least for 3 minutes until homogenous with no lumps. Mix only full bags for best results.

### APPLICATION

Stand the grout for ~2-3 minutes; stir with a trowel and then pour into the prepared openings. For more information on pouring techniques refer to Sika Method Statement

## CURING TREATMENT

All exposed areas of grout should be covered immediately after placement to protect the fresh material from premature drying using an appropriate curing method e.g. curing compound, moist geotextile membrane etc.

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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