

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-524

(formerly MFlow 524)

High strength, non-shrink, cementitious construction grout

## DESCRIPTION

SikaGrout<sup>®</sup>-524 is a ready to use product in powder form, which requires only on-site addition of water to produce a non-shrink grout of predictable performance.

## USES

SikaGrout<sup>®</sup>-524 is formulated for use at plastic or flowable consistency, and may be used with confidence for bedding, grouting and void filling operations.

## FEATURES

Non-shrink  
Adjustable consistency  
Proven and predictable performance  
High bond strength to steel and concrete  
Early strength development  
Impermeable

## PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Packaging</b>          | SikaGrout <sup>®</sup> -524 is supplied in 25kg bags   |
| <b>Shelf life</b>         | Storage life is approximately 12 months when stored in ideal conditions in original sealed bags.                   |
| <b>Storage conditions</b> | Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction. |
| <b>Density</b>            | Flowable 2230kg/m <sup>3</sup><br>Plastic 2350kg/m <sup>3</sup>  |

## TECHNICAL INFORMATION

|                             |  |
|-----------------------------|--|
| <b>Compressive strength</b> | Compressive Strength N/mm <sup>2</sup><br>Flowable at ASTM C-109: 2.7ltr/Bag<br>1 day 17-19N/mm <sup>2</sup><br>3 days 20-25N/mm <sup>2</sup><br>7 days 30-35N/mm <sup>2</sup><br>28 days 40-45N/mm <sup>2</sup> |
| <b>Flexural-strength</b>    | Flexural Strength N/mm <sup>2</sup> BS 6319 Flowable<br>Part 3:<br>28 day 5.95   |

|                         |   |
|-------------------------|---|
| <b>Tensile strength</b> | Tensile Strength N/mm <sup>2</sup> BS 6319 Flowable<br>Part 7:<br>28 day 3.04 |
| <b>Expansion</b>        | Free expansion: 2-4%<br>Restrained expansion: 0-0.4%                          |

## APPLICATION INFORMATION

|                     |   |
|---------------------|---|
| <b>Yield</b>        | Water content 2.7 ltr. /325g yield /consumption 12.3 ltr. /25kg |
| <b>Mixing ratio</b> | Flowable 2.7ltr/25kg<br>Plastic 2.3ltr/25kg                     |

## 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.

## LIMITATIONS OF USE

For precision grouting of heavy machinery, use SikaGrout®-928.

When a very rapid set is required in areas subject to chemical spillage or contamination, use epoxy grouts Sikadur®-915.

For additional information on SikaGrout®-524 grout or other non-shrink grouting materials, contact Sika Technical Department.

## IMPORTANT CONSIDERATIONS

The temperature of both the grout and elements coming into contact with the grout should be in the range of +5°C to +35°C. Do not use water in an amount of grout at a temperature that will produce a consistency more than flowable or cause mixed grout to bleed or segregate.

SikaGrout®-524 should be laid at a minimum thickness of 10mm and to a maximum depth of 80mm. For applications above 80mm, consider the use of SikaGrout®-928.

**DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION.**

**UNDER NO CIRCUMSTANCES SHOULD SikaGrout®-524 BE RE-TEMPERED BY LATER ADDITION OF WATER.**

It is essential that a mechanically powered grout mixer be used to obtain the optimum properties. A slow speed drill and mixing paddle may be used for single bag batches only.

## 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.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds or other contaminants that could impair adhesion. Soak area to be grouted to minimise absorption. Surfaces should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary. Base plates, bolts etc. must be clean and free of oil, grease and paint. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease them for easy removal. Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout.

### MIXING

Damp down the inside of the grout mixer with water prior to mixing the initial batch of SikaGrout®-524. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of water. Slowly add the SikaGrout®-524, mixing continuously. Mix for 3-5 minutes until a smooth, uniform, lump-free consistency is achieved.

### APPLICATION

Place immediately after mixing, into the prepared area in such a manner that the grout has the shortest distance to flow. Pour the grout continuously maintaining a constant hydrostatic head wherever possible.

SikaGrout®-524 grouts are suitable for use with most types of pumping equipment.

Immediately after SikaGrout®-524 grout is placed, cover all exposed grout with clean wet hessian and keep moist until grout surface is ready to be finished, or until final set. Alternatively, consider the use of a curing membrane from the Sika Antisol range.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### Product Data Sheet

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