



## PRODUCT DATA SHEET

# SikaGrout®-713

(formerly MFlow 713)

High-precision non-shrink mineral-aggregate grout

### PRODUCT DESCRIPTION

SikaGrout®-713 is a cement-based grout with specially graded mineral aggregates. It can be used at any consistency from fluid to damp pack for applications that require precision support and early form stripping or shoulder trimming.

### WHERE TO USE

- Precision equipment, baseplate, soleplate, and column grouting
- Pump and tank bases
- Conveyors
- Fan housings and drive motors
- Grouting precast wall panels, beams and columns, concrete systems, structural building members, and curtain walls
- Grouting anchor bolts, rebar, and dowel rods

### CHARACTERISTICS / ADVANTAGES

- Single component, ready to mix and use
- Hardens free of bleeding and settlement providing maximum effective bearing area for optimum load transfer
- Highly fluid allowing pumpability into intricate or inaccessible areas
- Fluid, flowable, plastic, or damp-pack consistencies to help adjust to jobsite conditions
- Non-shrinking leaving no gaps around equipment and forms
- Meets the requirements of ASTM C1107 and US Army Corps of Engineers CRD C621 (ASTM C1107-93a, Grades B and C), at a fluid consistency over a 5 – 10 minute working time.
- Freeze/thaw resistant making it suitable for exterior applications
- Has the appearance of concrete or mortar
- Allows early form stripping or shoulder trimming

## TECHNICAL INFORMATION

Compressive Strength	Time	Plastic <sub>1</sub>	Consistency Flowable <sub>2</sub>	Fluid <sub>3</sub>	(ASTM C 942, according to ASTM C 1107)
	1 day	23 MPa (3,400 psi)	22 MPa (3,200 psi)	7 MPa (1,000 psi)	
	3 day	38 MPa (5,500 psi)	33 MPa (4,800 psi)	20.7MPa (3,000 psi)	
	7 day	48 MPa (7,000 psi)	45 MPa (6,500 psi)	34.5MPa (5,000 psi)	
	28 day	59 MPa (8,500 psi)	52 MPa (7,500 psi)	48 MPa (7,000 psi)	

<sub>1</sub>100% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

<sub>2</sub>135% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

<sub>3</sub>25–30 seconds through flow cone per ASTM C 939

The data shown are based on controlled laboratory tests. Expect reasonable variations from the results given. Control field and laboratory tests on the basis of the desired placing consistency rather than strictly on the water content.

If the work requires that strength tests be made at the jobsite or in the laboratory, do not use cylinder molds. Use 51 mm (2 inches) metal cube molds as specified by ASTM C 942 or ASTM C 1107.

## PRODUCT INFORMATION

Composition / Manufacturing	SikaGrout®-713 is a hydraulic cement-based grout with specially graded mineral aggregates.
Packaging	25 kg (55 lb) polyethylene-lined bags
Shelf Life	12 months when properly stored
Storage Conditions	Store in unopened containers in a cool, clean, dry area

## APPLICATION INFORMATION

Yield	One 25 kg (55 lb) bag of SikaGrout®-713 mixed with 5.1 kg (11.25 lb) or 5.1 L (1.35 US gal.) of water produces approximately 0.015 m <sup>3</sup> (0.52 ft <sup>3</sup> ) of grout. Water usage will vary with consistency requirements, increasing or decreasing the yield.
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## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS

provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### NOTES ON INSTALLATION

**DO NOT INSTALL THIS PRODUCT WITHOUT READING AND REFERENCING THE COMPANION SikaGrout®-713 INSTALLATION GUIDE.**

## SURFACE PREPARATION

- The surface to be grouted must be clean, SSD, strong, and roughened to a CSP of 5–9 following ICRI Guideline 310.2 to permit proper bond.
- • When dynamic, shear, or tensile forces are anticipated, concrete surfaces should be chipped with a “chisel-point” hammer, to a roughness of (plus or minus) 10 mm (3/8 in ). Verify the absence of bruising following ICRI Guideline 210.3.

## SURFACE PREPARATION

### Forming

- Forms should be liquid-tight and nonabsorbent. Seal forms with putty, sealant, caulk, or polyurethane foam.
- Expansion joints may be necessary for both indoor and outdoor installation. Consult your local Sika field representative for suggestions and recommendations.

### MIXING

- Place estimated water (use potable water only) into the mixer, then slowly add the grout.
- The water demand will depend on mixing efficiency and material and the ambient temperature. Use the minimum amount of water required to achieve the necessary placement consistency. Recommended flow is 25–30 seconds or greater using the ASTM C 939 Flow-Cone Method.
- Mix grout for a minimum of 3 minutes after all material and water are in the mixer. Use a mechanical mixer only.

### APPLICATION

- Contact your local representative for a pre-job conference to plan the installation.
- Always place grout from only one side of the equipment to prevent air or water entrapment beneath the equipment. Place SikaGrout®-713 in a continuous pour.
- The minimum placement thickness is 25 mm (1 in) . Consult your Sika representative before placing lifts more than 152 mm (6 in) in depth.
- Do not use it in marine environments.
- Should not be used as a floor topping.
- Large, exposed areas of grout should be avoided.
- Structural integrity of the grout is not affected by superficial, hairline cracks occasionally observed in shoulders, near base plate edges, and around anchor bolts.

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## CURING TREATMENT

Cure all exposed grout with an approved membrane curing compound compliant with ASTM C 309 or preferably ASTM C 1315.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

#### Product Data Sheet

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