

PRODUCT DATA SHEET

SikaGrout[®]-713

(formerly MasterFlow[®] 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.

USES

- 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

PRODUCT INFORMATION

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

TECHNICAL INFORMATION

Compressive Strength

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

₁100% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

₂135% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

₃25–30 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 2" (51 mm) metal cube molds as specified by ASTM C 942 or ASTM C 1107.

APPLICATION INFORMATION

Coverage

One 55 lb (25 kg) bag of SikaGrout®-713 mixed with 11.25 lbs (5.1 kg) or 1.35 gallons (5.1 L) of water produces approximately 0.52 ft³ (0.015 m³) of grout. Water usage will vary with consistency requirements, increasing or decreasing the yield.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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) 3/8" (10 mm). 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 1" (25 mm). Consult your Sika representative before placing lifts more than 6" (152 mm) 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.

CURING TREATMENT

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

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Product Data Sheet

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