Technical Data Sheet Edition 5, 2012 Identification no. 02 02 01 01 001 0 000062 Version no. 0010 SikaGrout FM

SikaGrout FM

High performance, Non-Shrink Cementitious Grout

Description	A ready mixed, low heat cementitious grout incorporating silica fume which has excellent flowability and a special two-stage volumetric expansion characteristic to compensate the plastic shrinkage normally associated with cementitious grout. Complies to Corps of Engineer's specification CRD C-621 and ASTM C-1107
Use	 For grouting over a wide range of applications: Anchor bolts Machine bedding/base plates Supporting bridge bearing pads Precast concrete sections Dry pack applications Cavities, gaps and recesses.
Advantages	 Easy to use just add water Low heat development Good flow characteristic Adjustable consistency Shrinkage compensated High final strength Very suitable for use in marine structure Non-Corrosive Non-Toxic
Consumption	~ 1.905 kg/m ³ of mortar.
Instruction For U Surface Preparation	Se Remove dirt, oil, grease, loose material and other bond-inhibiting materials. Anchor bolts to be grouted must be degreased with suitable solvent. Concrete must be sound ad roughened to promote mechanical adhesion. Prior to pouring, surface must be wetted to saturated surface dry
Forming	For pourable grout, construct forms to retain grout without leakage. Forms should be lined or coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate head of grout. Where grout tight form is difficult to achieve, use SikaGrout FM in dry pack consistency.
Mixing	Put appropriate quantity of water (depend on the required consistency) into a mixing vessel. Add slowly the total contents of SikaGrout FM while mixing. Mix continuously for 3 minutes to achieve an even consistency. Use a mechanically low speed drill (400–600 rpm) with helical type mixing paddle or appropriately sized mortar mixer.



Curing		Wet cure for a minimum 3 days with wet hessian, plastic sheet or apply a curing compound (Antisol)
Limitation	n	Minimum application thickness : 10 mm Recommended thickness of SikaGrout FM in one pour is 20 mm to 100 mm. If the thickness exceeds 100 mm, special procedure must be taken to anticipate temperature rise. Iced water, add coarse aggregate to the mix, or both of them may be used to eliminate temperature rise. Keep the materials and substrate temperature lower than 30 [°] C Variations in cement could cause shade differences in colour of the mortar
Techni	cal Data	
Form		Powder
Color		Grey
Flow Con	ndition	Flowable
	<u> </u>	(Mod J cone : 6-12 sec)
	quirement er 25 kg bag)	4.0 (water per powder = 16% by weight)
Yield (Litres pe	er 25 kg bag)	13.15
Mix Dens	sity	2.21 kg/l
Compres (ASTM C-	sive Strength -109) 1 days 3 days 7 days	150 kg/cm ² 300 kg/cm ² 400 kg/cm ²
	28 days	550 kg/cm ²
Flexural S (ASTM C- Bond Street	-348) 28 days	> 50 kg/cm ²
to concre to grout	ete 28 days 28 days	 >15 kg/cm² (concrete failure, over mechanically roughened concrete surface) >25 kg/cm² (over mechanically roughened grout surface)
(at 27 °C)		0.30 – 1.20 %
(at 27 °C	tting Time ;)	4 – 8 hours
Shelf Lif	e	9 months when unopened and stored in dry condition
Packagii	ng	25 kg bag
Handlir Precau		 Avoid contact with skin & eyes. Wear protective gloves and eye protection during work If skin contact occurs, wash skin thoroughly If in eyes open and flood with warm water. Seek medical attention without delay. A full Material Data Sheet is available from Sika on request.
Legal N	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 product when properly stored, handled and applied under normal conditions in accordances 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 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.





PT. Sika Indonesia JI. Raya Cibinong- Bekasi km. 20 Limusnunggal- Cileungsi BOGOR 16820 - Indonesia Tel. +62 21 8230025 Fax +62 21 8230026 ♥ebsite : www.sika.co. id e-mail: <u>sikacare@id.sika.com</u>

Branches Surabaya : Komp. Pergudangan Meiko Abadi III Blok B-52 & B-53, Ds. Gemurung, Gedangan, Sidoarjo 61254 Tel : 031- 8911333; Fax : 031-8916333 Medan : JI. Serbaguna (Simp. Jalan Veteran), Kompleks Pergudangan Brayan Trade Center No. 34, Medan 20239 Tel : 844 6697, 844 6997 ; Fax : (061) 844 6698 Batam : JI. Laksamana Bintan, Komp. Bumi Riau Makmur Blok E No.3, Sungai Panas Tel : (0778) 424928; Fax : (0778) 450189



2