

PRODUCT DATA SHEET

SikaGrout[®]-815 ID

Cementitious high strength non-shrink precision grout for deep pour applications

DESCRIPTION

SikaGrout[®]-815 ID is a non-shrink, natural aggregate precision grout for deep pours. Formulated to provide ample working time when mixed and placed at a flowable consistency. SikaGrout[®]-815 ID contains specially graded natural aggregates and provides high early and ultimate compressive strengths. SikaGrout[®]-815 ID is generally used for deep pour applications between 50 mm and 500 mm.

USES

SikaGrout[®]-815 ID is used for all precision, non-shrink grouting applications with thick layers and clearances of 50 mm or more, including:

- Equipment baseplates, sole plates & columns
- Precast wall panels, beams, and columns
- Grouting thick pour applications up to 500 mm thick
- Concrete repair applications where a form and pour material is required
- Applications requiring high early compressive strengths and high ultimate compressive strengths

CHARACTERISTICS / ADVANTAGES

- **High strength** - provides good early and ultimate strengths, which ensure quick return to service and long-term durability.
- **Non-shrink** - Hardens free of bleeding, settlement and drying shrinkage when placed at flowable consistency.
- **Ample working time** - Remains placeable even at high ambient temperatures.
- **Flowable consistency**
- **Dense, impermeable grout** - Provides a good water-tight seal.
- **Non staining** – Free of metallic aggregate.
- **Similar in appearance to plain concrete**
- **No added chloride**
- **Provides complete non-shrink performance** - when tested in accordance with a simulated Bedplate Technique.

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf Life	9 months from date from production
Storage Conditions	The products must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.
Density	~2.3 kg/L

TECHNICAL INFORMATION

Compressive Strength	1 day	~24 N/mm ²	(ASTM C-109)
	3 days	~40 N/mm ²	
	7 days	~52 N/mm ²	
	28 days	~63 N/mm ²	

Test method : ASTM C109, specimen size is 50 mm cube.

Strength development

The Strength of the grout is often the determining factor in deciding when loads can be put on structural members of machinery. The strength of the grout is depended on the amount of mixing water, ambient and substrate temperature, curing and age of the hardened grout.

Note: The data shown is based on controlled laboratory tests. Reasonable variations from the results shown can be expected. Field and laboratory tests should be conducted on the basis of the desired placing consistency rather than strictly on indicated water demands. If the project required that strength tests be conducted on site, do not use cylinder moulds. Compressive strengths should be determined in accordance with ASTM C 109, Appendix A using 50 mm cube moulds with compression covers.

APPLICATION INFORMATION

Mixing Ratio	Actual water demand will depend on consistency required and temperature (both ambient and grout). As a guide, the approximate quantity of water required is ~3.15 l to mix a 25 kg bag of SikaGrout®-815 ID.		
Consumption	25 kg of SikaGrout®-815 ID mixed to a flowable consistency produces approximately 10.8 litres of grout.		
Layer Thickness	Recommended thickness is 50 - 500 mm		
Ambient Air Temperature	+10 °C - +35 °C		
Substrate Temperature	+10 °C - +35 °C		
Flowability	Flow cone (mm)	≥ 200 mm	(ASTM C230/230M)

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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Remove all 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 and roughened to promote mechanical adhesion.
- Prior to pouring, surface must be wetted to saturated surface dry.

FORMING

For flowable grout, construct forms to retain grout without leakage. Forms should be lined or coated with bond-breaker for easy removal. If tight form is difficult to achieve, use SikaSet Accelerator as water plug (refer to PDS SikaSet Accelerator).

MIXING

Water Demand

The actual amount of water required will depend on the desired consistency for the job and temperature (both ambient and grout). For any given consistency more water will be required at high temperatures, and less at low temperatures.

SikaGrout®-815 ID is designed to be placed at a consistency which will give >200 mm (flowable) when test to ASTM C 230.

As a guide 25 kg of SikaGrout®-815 ID mixed at +23 °C Requires approximately, 3.15 litres of water to provide the recommended lateral flow. Put measured quantity of water (depend on the required consistency) into a mixing vessel. Add slowly the total contents of SikaGrout®-815 ID while mixing. Mix continuously for 3 minutes to achieve even consistency. Use a mechanically low speed drill (400 - 600 rpm) with mixing paddle or appropriately sized mortar mixer.

DO NOT USE WATER IN AN AMOUNT OR AT A TEMPERATURE THAT WILL CAUSE THE MIXED GROUT TO BLEED OR SEGREGATE.

APPLICATION

For application directions on preparation, forming, mixing, placing and curing SikaGrout®-815 ID, as well as the precautions to take in hot and cold weather. Use a suitable head box of 150–200 mm and maintain the grout head all times to ensure a continuous flow. Gentle tapping or pulling loops of wire from one side may assist the flow of the mortar under difficult working conditions. Please refer to “Method Statement” available from your local Technical Service Representative.

CURING TREATMENT

As for all cementitious materials, curing is essential to prevent rapid drying out of the grout and shrinkage caused by the water loss. Curing should be carried out using curing compounds, polythene sheet, wet hessian or water ponding.

CLEANING OF TOOLS

Clean the tools and equipment using clean water. Once hardened, the product may only be removed using mechanical means.

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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