

PRODUCT DATA SHEET

SikaGrout®-788 ID

NON-SHRINK CEMENTITIOUS GROUT FOR UNDER WATER APPLICATIONS

DESCRIPTION

A ready to use, cementitious grout which on mixing with the specified quantity of water provides a flowable grout with high resistance to cement wash out when placed under water, with high early and final strength characteristics. The grout undergoes controlled expansion in the plastic state.

USES

SikaGrout®-788 ID can be used for free flowing or pumped grout applications underwater, for reinstating concrete, such as:

- Bridge piers
- Concrete piles
- Jetty pillars
- Harbour walls

FEATURES

- **Shrinkage compensated** - continues to retain filled volume.
- **Non-wash out** - no significant cement wash out underwater.
- **Free flowing** - flows easily even in gaps as narrow as 20mm, to facilitate complete filling of voids.
- **Pre-packed** - no batching or blending errors. Consistency in performance from batch to batch.
- **Dense micro structure** - resists water ingress. Protects steel.
- **High early and final strengths** - early load transfer and rapid installation.
- **High bond strength** - primer not required to facilitate good bond.

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance and colour	Powder / Grey
Shelf life	9 months from the date of production if stored in undamage and unopened original sealed bags.
Storage conditions	Store in dry condition between +10 °C - +30 °C
Density	~2.15 kg/L

TECHNICAL INFORMATION

Compressive strength	1 day	~14.0 N/mm ²	(ASTM C-109)
	7 days	~30.0 N/mm ²	
	28 days	~45.0 N/mm ²	
Flexural-strength	28 days	~5.0 N/mm ²	(ASTM C-348)

Tensile adhesion strength	28 days	~2.0 N/mm ² Concrete failure, over roughened concrete surface
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APPLICATION INFORMATION

Mixing ratio	4.5 L per 25 kg bag (water per powder = 18 % by weight)		
Yield	13.7 L per 25 kg bag		
Layer thickness	Recommended thickness is 20 - 150 mm (underwater)		
Material temperature	< +30 °C, max.		
Ambient air temperature	+10 °C - +35 °C		
Substrate temperature	< +35 °C		
Pot Life	25 min.		
Flowability	Flow table (mm)	>200 mm	(ASTM C230/230M)
Setting time	3 days (underwater) 1 day (at +23°C)		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Minimum application thickness : 10 mm.
- Recommended thickness of SikaGrout®-788 ID in one pour is 20 mm to 150 mm (underwater), if above water maximum thickness must be 80 mm. Any grout pour that exceeds this should be done in stages, or have stone aggregate added to it, to reduce the exothermic heat.
- If the application thickness exceeds 80 mm (above water) or 150 mm (under water), special procedure must be taken to anticipate temperature rise. Iced water, add coarse aggregate to the mix (max. 40% by powder weight), or both of them may be used to eliminate temperature rise.
- Do not apply a grout as a patch repair or overlay in unconfined areas (horizontal, free applications).
- Do not add water over the maximum recommended dosage.
- Variations in cement could cause shade differences in colour of the mortar.
- Avoid application in direct sun and/or strong winds.
- Do not apply SikaGrout®-788 ID in temperatures below 5°C.
- Never raise the tube used to place SikaGrout®-788 ID above the surface level of the grout.

ECOLOGY, HEALTH AND 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

SUBSTRATE QUALITY

SUBSTRATE PREPARATION

All surfaces must be clean, sound and free from oils, grease or other surface contaminants. If the concrete surface is defective, or has laitance, it must be cut back to a sound base. Permanently immersed substrates should be prepared by sand blasting or high pressure water jet. Non-permanently immersed substrates can also be prepared this way, or by scrubbing.

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 SikaSet Accelerator as water plug (refer to PDS SikaSet Accelerator).

MIXING

Put measured quantity of water (depend on the required consistency) into a mixing vessel. Add slowly the total contents of SikaGrout®-788 ID while mixing. Mix continuously for 3 minutes to achieve an even consistency. Use a mechanically low speed drill

(400–600 rpm) with mixing paddle or appropriately sized mortar mixer. Mix the grout until it appears homogeneous. Allow to stand so any entrapped air can escape. Do not add more water to increase flow of grout if a mix has stiffened due to time delays. If grout is unworkable, discard.

APPLICATION

SikaGrout®-788 ID can be poured or pumped through a flexible tube (minimum diameter of 50 mm) to the lowest section of the form. The grout flow must be restricted during the pour so that the water is not entrapped. The flexible tube can be raised to reduce pressure; however, it should never be raised above the surface level of the grout.

CURING TREATMENT

Curing will not be required in submerged situations. Grout cast above the water should be cured using suitable methods such as plastic sheeting, wet hessian, or Antisol® liquid membranes.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardener and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

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