

PRODUCT DATA SHEET

SikaGrout[®]-295

Cement-Base Fluid Expanding Mortar, With High Mechanical Resistance

DESCRIPTION

One component cement base mortar with high mechanical resistance. It is supplied ready to use, only by adding water.

USES

Sikagrout[®]-295 is indicated for all of uses that need high initial or final high mechanical resistances:

- Bearing plates, machine foundations and anchors.
- Metallic elements (reinforcements, etc.), concrete posts and pre-cast construction columns.
- Cavities, gaps and recesses into the concrete mass filling.

Note: Do not use for surfaces levelling.

CHARACTERISTICS / ADVANTAGES

Sikagrout[®]-295 has the following properties:

- Easy mixing and placing in cast.
- Good flow characteristics and pourable with Self-levelling.
- Free from chlorides and metallic particles. It does not oxidize in contact with humidity, it protects metallic parts against corrosion, due to its basic PH
- Slightly expanding.
- High mechanical resistances and quick resistances development.
- Excellent concrete, mortar or steel adhesion. It provides a monolithic joining and impact and vibration resistance.
- Waterproofing: water and oils resistant.
- It is neither toxic, nor corrosive.

APPROVALS / CERTIFICATES

- U.S. Corps of Engineers: CRD C-621 expansion percentage.
- ASTM C-1107 for 2 stage expansion Grout Grades B+C.
- Sika Grout 295 has been tested
Result VOC Content < 5 g/L

PRODUCT INFORMATION

Composition	Cement, selected fillers and aggregates, special additives
Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf life	12 months from its manufacturing date, in their original packaging.
Storage conditions	Store at a dry and fresh place.
Density	Approx. 2.3 kg/l of the fresh mortar

TECHNICAL INFORMATION

Compressive strength	28 days > 70 MPa	(EN 196-1)												
Tensile strength in flexure	Flexural-tensile: 10 N/mm ² Table of resistance at different times and consistencies:													
	<table border="1"> <thead> <tr> <th>Resistances</th> <th colspan="2">Values in N/mm²</th> </tr> <tr> <td></td> <th>24 h</th> <th>28 days</th> </tr> </thead> <tbody> <tr> <td>Compression</td> <td>35</td> <td>>70</td> </tr> <tr> <td>Flexural -Tensile</td> <td>6.0</td> <td>8.0</td> </tr> </tbody> </table>	Resistances	Values in N/mm ²			24 h	28 days	Compression	35	>70	Flexural -Tensile	6.0	8.0	
Resistances	Values in N/mm ²													
	24 h	28 days												
Compression	35	>70												
Flexural -Tensile	6.0	8.0												
Expansion	Maximum 0.3%													
Reaction to fire	Euro Class A1	(EN 1504-6)												
Water absorption	Mixing Water 12-13% by weight of mortar													

APPLICATION INFORMATION

Consumption	2.3 kg of the fresh mix by m ² and mm of thickness.
Yield	1 bag yields approximately 12.3 litres of mortar
Layer thickness	minimum 10 mm/ maximum 50 mm
Ambient air temperature	+5°C min. / +30°C max
Substrate temperature	+5°C min. / +30°C max

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.

IMPORTANT CONSIDERATIONS

- Sikagrout® -295 is not indicated for surfaces leveling. Due to its expanding effect, avoid free surfaces.
- It is recommended to apply Sikagrout® -295 immediately after it's mixing in order to take profit from its expanding characteristics. If possible do not wait more than 10 minutes after mixing it.
- If used for filling, the minimum opening size should be 10 mm.
- The minimum substrate, room, and mix temperature during its application should be + 5° C.
- In case of contact with the skin wash with water.
- For any explanation, please contact our Technical Department.

ECOLOGY, HEALTH AND SAFETY

Ecology

- Do not dispose of into water or soil but according to local rules and regulations.

Transport

- Non-hazardous.

Safety Precautions

- Wear gloves, coveralls and goggles during handling.
- Sikagrout® -295 contains cements of high alkalinity which could affect people with sensitive skin.
- Always wash your hands with soap and water after use.

Toxicity

- Non-Toxic when fully cured.

APPLICATION INSTRUCTIONS

Surface Preparation

1. Concrete substrates should be clean, sound and free from grease. Oils, cement laitance and all loosely adhering particles.
2. Metallic elements should be clean and free from oils, grease, and rust. Substrates cleaning, if necessary, should be preferably done by mechanical ways.
3. Absorbent substrates should be saturated, avoiding pooling. Sikagrout® -295 will be applied when surfaces begin to have a mate aspect.

MIXING

SikaGrout®-295 can be mixed with a low speed (<500 rpm) hand drill mixer to avoid entraining too much air. Mix only full bags for best results. Pour the minimum recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding additional water if necessary to the maximum specified amount to adjust the grout to the required consistency.

APPLICATION

- Pour Sikagrout® -295 immediately after mixing it in order to take profit from its expanding effect.
- For bearing plates, it is necessary to have a mortar entrance hole and air evacuation hole. It is recommended to stir mechanically the mix in order to facilitate the filling process.

CURING TREATMENT

Keep visible exposed grout surfaces to a minimum. Protect the fresh material from premature drying using appropriate curing method e.g. curing compound, moist textile membrane, polythene sheet etc.

CLEANING OF EQUIPMENT

Tools should be cleaned with water, immediately after its use.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com



Product Data Sheet

SikaGrout®-295
December 2020, Version 03.01
020201010010000060

SikaGrout-295-en-EG-(12-2020)-3-1.pdf