

TECHNICAL DATA SHEET

ISOTAL

Grouting mortar



PRODUCT DESCRIPTION	Plasticized cement compound with grain size up to 4 mm, with shrinkage compensation and high initial and final strength.
Field of use	For grouting steel structures, anchors, machine base slabs, fundaments, joint sealing. For inside and outside application.
Product properties	<ul style="list-style-type: none"> • No contractibility • High initial and final tensile strengths • Liquidness • Does not contain chlorides

PRODUCT DATA

Basic information

Appearance	Grey powder
Packing	30 kg in bag (plastificated) / 1260 kg (42 x 30 kg) on palette
Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging

Technical data

Type of product	Portland cement, selected aggregates and additives	
Bulk density of powder	1,42 kg/l	EN 12192-1:2002
Weight of fresh mortar	2,26 kg/l	EN 1015-6:1999
Weight of hardened mortar	2,195 kg/l	EN 12190:2000
Grain size	D _{max} : 3,15 mm	EN 12192-1:2002
Linear deformation	<= 0,3 %	EN 12617-1:2003
Vakuum expansion in plastic form	+ 0,4 vol. %	intern method
Flexural strength		EN 12190:2000
after 1 day	5,4 MPa	
after 7 days	8,2 MPa	
after 28 days	8,6 MPa	
Compressive strength		EN 12190:2000
after 1 day	33,3 MPa	
after 7 days	57,0 MPa	
after 28 days	66,5 MPa	
Pouring height	20-150 mm	intern method

INSTRUCTIONS FOR USE

Consumption

approx. 2 kg for filling a 1 dm³

Base preparation

Before pouring the ISOTAL compound, an adequate opening for pouring and opening for de-aeration has to be assured. Remove all free particles, dust, oil spots, dirt, coatings residue and everything that could reduce adherence to the concrete surface. On very smooth concrete surfaces grinding or sand-blasting is recommended in order to get sufficiently rough and adherent concrete surface.

All surfaces to contact the grouting compound ISOTAL have to be moistened with water. The standing water has to be removed from openings by vacuuming or blowing out with compressed air. With very absorbent surfaces it is recommended to use KEMAPOX LINK as a bonding bridge, diluted with water in ration 1:1. Application is also possible on dry bonding bridge; KEMAPOX LINK has to be diluted with water in ratio 1:1 and then completely covered with Quartz Sand (B80S). The next day excess Sand has to be removed and the surface has to be vacuum cleaned.

Mix ratio

3,9-4,8 l of water per 30 kg of dry mixture

Mix time

¾ of the water is poured into the mixer. While pouring the dry mixture into the water, mix continually until it is homogenous. The rest of the water is added according to the desired consistency (depending on the air temperature). Mixing should take 3-5 minutes, depends on intensity. Mix longer if necessary.

Mix tool

The grouting compound ISOTAL is mixed in mixer.

Installation

ISOTAL is poured on the prepared surface right after it has been mixed. Pour it into openings from one side only in order not to catch any air bubbles into the compound. Up to max. 30% of crushed Sand – grain size 4-8mm may be added, when the thickness is higher than 150 mm. In this case we, workability and final properties of the mortar should be checked before installation.

EXAMPLE: In grouting mortar ISOTAL 30 kg bag we can be added 6 kg of crushed Sand (20 %). Dosage of water has to be tested with trial mixture.

NOTE: Grouting can be done in one layer up to max. 30 cm.

Cleaning of tool

Clean the tools immediately after use. Dry compound can be removed only mechanically

Usage time

approx. 45 minutes

LIMITATIONS

Base temperature

+5°C min./ +30°C max.

Air temperature

+5°C min./ +30°C max.

Material temperature

+5°C min./ +30°C max.

Warnings

- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
- Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than 5°C.

Recommendation: Remains of the unhardened/unset material must be disposed in accordance to the local legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions a country technical sheet should be obtained.

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.