

Sika®-102

Fast-setting cementitious mortar

Product Description

Sika®-102 is a chloride free, fast-setting cementitious mortar in prepacked powder form. When mixed with water it becomes a powerful, fast-setting permanent waterplug.

Uses

To stop water leaks and seepage through rock and concrete, as well as through joints between concrete and steel (bolt surroundings, ducts, sheetpiles, etc.) in subways, culverts, tunnels, dams, basements, pools, etc.

Characteristics / Advantages

- Easy to use, easy to mix – just add to water
- Very fast setting with rapid strength development
- Permanent
- Good adhesion
- Excellent water-stopping power and hydraulic resistance
- No cracking
- Will not cause corrosion to steel bars
- Non-toxic after hardening

Product Data

Form

Appearance / Colour Grey powder

Packaging 2.5 kg and 5 kg tins

Storage

Storage Conditions / Shelf Life 6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight.

Technical Data

Specific Gravity 1.99

Resistance

Fire Resistance Fire rating, Classified A1 - Sika®-102 will not contribute in any state of the fire including the fully developed fire (EN 13501-1).

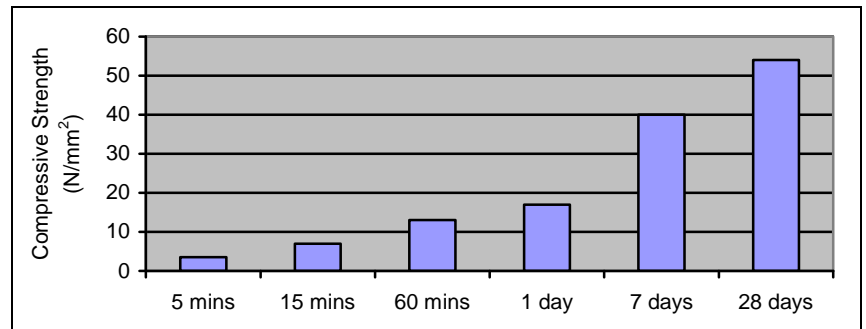


Mechanical / Physical Properties

Compressive Strength (typical results)

Tests conducted under laboratory conditions at 25°C based on the mix ratio below:

Age	Compressive Strength (N/mm ²)
5 minutes	3.5
15 minutes	7.0
60 minutes	13.0
1 day	17.0
7 days	40.0
28 days	54.0



System Information

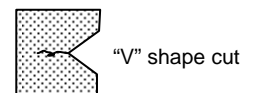
Application Instructions

Mix Ratio

Sika®-102 : water = 1 : 0.24 – 0.30 parts by weight.

Application Method / Tools

Check the full extent and reason for the leak so as to ensure no further problems will be caused by sealing the leak. Then cut concrete or rock in "V" shape around the leaking point. Remove all chippings, unsound and loose particles and clean surface with water prior to application of Sika®-102.



Mix Sika®-102 with clean water (please refer to "Mix Ratio") to a pasty consistency. As Sika®-102 is very fast setting, mix only small quantities. Apply freshly prepared Sika®-102 into the V-shapes cut, starting from the outside and working towards the centre (plug minor leaks).



Hold material in place by hand for 1 – 2 minutes. When sealed and set, cut off excess materials to flush with surface. Keep damp.



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

Hardening Time (at 25°C) 80 – 130 seconds

Value Base 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.

Health and Safety Information 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 (available upon request) containing physical, ecological, toxicological and other safety-related data.

Legal Note 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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