

PRODUCT DATA SHEET

Sika® Plug

CEMENTITIOUS FAST SETTING WATER PLUG

DESCRIPTION

Sika® Plug is a chloride free, ready for use powder based on high alumina cement. When mixed with water Sika® Plug becomes a rapid setting plugging mortar.

USES

Sika® Plug is a chloride free, ready for use powder based on high alumina cement. Sika® Plug can be used to seal leaks as a pre-treatment to the installation of a Sikalastic® cementitious waterproofing system.

CHARACTERISTICS / ADVANTAGES

- Easy to use and mix - just add water.
- No special equipment required.
- Rapid setting and high early strength gain.
- Excellent adhesion to mineral substrates.
- Rapid water-stopping capacity and hydraulic resistance.
- No cracking and very low shrinkage.

PRODUCT INFORMATION

Chemical Base	High Alumina cement
Packaging	5 kg
Appearance / Colour	Grey Cement powder
Shelf Life	Twelve (12) months from date of production if stored as stated.
Storage Conditions	Storage in dry warehouse conditions in unopened original containers.
Density	2.0kg/litre (mixed) approx.
Compressive Strength	24 hrs: ~9 MPa. 3 days: ~ 25 MPa. 28 days: ~ 30 MPa (at 23°C)

APPLICATION INFORMATION

Mixing Ratio	3 parts powder : 1 part water (approx. by mass)	
Initial Set Time	Water Temp. (°C)	Initial Set (seconds)
	5	150
	10	110
	15	85
	20	70
	25	60
	30	50
	35	45

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, mortar, brickwork: Sound, clean, free from oil, grease, dust or laitance. Steel, iron: Clean, free of oil, grease and rust. If possible open the area to be treated to a roughened surface for a better mechanical and/or "V" shape profile at the leak. Porous substrates must be pre soaked prior to application.

MIXING

Depending on the site conditions and due to the rapid curing of the product only small quantities may be mixed at any one time. Thoroughly and quickly the powder and water in a suitable container. Mix only the amount that can be immediately applied by gloved hand or trowel.

APPLICATION

Quickly work the mixed mortar firmly into the leaking crevice, V-cut, joint etc. and hold in place with a gloved hand or trowel until the mortar is sufficiently hard to remain in place. Strike off flush with the surface if desired. Repeat this procedure, mixing small quantities at a time until the seepage or leak is stemmed. If the water pressure is too high, a timber plug maybe installed then covered with Sika® Plug.

CLEANING OF TOOLS

Clean all tools and equipment immediately after use with water. Hardened material can only be removed mechanically.

FURTHER DOCUMENTS

- Under certain conditions of warm to hot ambient temperature in the presence of water for prolonged periods, hardened high alumina cement undergoes a chemical process known as "Conversion" resulting in a loss of mechanical strength. Sika® Plug is therefore not recommended for medium to long term structural repairs and should be overcoated with, and used as part of, the a Sikalastic® waterproofing system.
- Prepare Sika® Plug in small quantities at a time. If mixed in large quantities hardening may occur prior to application.
- Do not mix other cements or admixtures with Sika® Plug.
- Sika® Plug is hygroscopic. Seal any unused material immediately in the original container.

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Product Data Sheet
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May 2019, Version 01.01
020302040040000015

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.

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.

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

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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