

## TECHNICAL DATA SHEET (TDS)

# PRIMAPLUG

Codice Prodotto 000

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**ULTRA-RAPID READY-MIX HYDRAULIC BINDER FOR STOPPING WATER INFILTRATION INSTANTLY.**

### Benefits

The specific characteristics of the product are:

- **EXTREMELY QUICK SETTING TIMES:** at a temperature of approx. 20 ° C PRIMAPLUG expands and hardens in roughly 1-2 minutes.
- **EFFECTIVE EVEN IN THE PRESENCE OF WATER UNDER PRESSURE:**
- PRIMAPLUG instantly blocks water under pressure.
- **EASY APPLICATION:** PRIMAPLUG is simple to apply both manually or by trowel; the product's plastic thixotropic consistency ensures easy application both horizontally and vertically.
- **HIGH MECHANICAL STRENGTH EVEN AFTER A SHORT CURE TIME:** PRIMAPLUG develops high compressive and tensile strength in just a few hours after application.
- **NO SHRINKAGE:** the special formula of PRIMAPLUG ensures there is no shrinkage and reduces cracking.



### Description

PRIMAPLUG is a special pre-mixed cement binder that is specifically formulated to instantly plug water infiltration in concrete structures and walls. When mixed with water PRIMAPLUG forms a thixotropic paste that is easy to apply manually or by trowel. The hydraulic binders react rapidly expanding to block water under pressure from holes, cracks and porous surfaces.

### Uses

- To rapidly plug water leaks at both medium and high pressure.
- For sealing holes and cracks with water leakage.
- Waterproofing joints between walls and floors, and any rigid construction joints.
- Sealing deep cracks and crevices that pass through when used in combination with the hydrophilic expansive sealant.



### 1 Substrate preparation

#### • FOR BLOCKING WATER INFILTRATION

Using a chisel, enlarge the hole or crack to a depth and a width of at least 2 cm. Use a wrecker or a normal hammer with the chisel. Make sure the hole is wider inside the wall than at the surface. Clean the area to be repaired thoroughly by removing loose or flaking parts, dust and debris with a brush or compressed air. Wet the area to be treated immediately before applying PRIMAPLUG .

#### • FOR RIGID JOINTS

Clean the area to be repaired thoroughly by removing loose or flaking parts, dust and debris with a brush or compressed air. Wet the area to be treated and wait for the excess water to evaporate or if necessary remove with a cloth. Before applying PRIMAPLUG make sure that the substrate is wet.

### 2 Mix preparation

Pour clean water into a container and then gradually add PRIMAPLUG and blend until the mix has the consistency of a uniform thixotropic, mouldable putty and is free of lumps. Use approx. 250 g of water for 1 kg of PRIMAPLUG (or 1 part water to 2.5 parts powder). PRIMAPLUG must be shaped by hand and sets very rapidly, so prepare small amounts of product.



DISCLAIMER All data indicated in this leaflet are the results of tests and experiments carried out in our laboratories and through reliable operators in the stone business and have to be considered reliable. Because of the many factors which can influence them, the information here reported do not constitute implicit or formal guarantees. The end user undertakes the responsibility in the usage of the product making sure to experiment the product characteristic as preventive measure



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### 3 Application Procedure

- FOR BLOCKING WATER INFILTRATION

Mould PRIMAPLUG by hand, and as soon as the product starts setting apply to the area to be treated and apply maximum pressure. Keep pressing until the product has hardened (approx. 2-3 minutes depending on the temperature).

Pag | II To plug water from vertical cracks we advise that you start from the top and work down. Once the product has set completely you can remove any excess material and then cover the walls with PRIMAX waterproof coatings.

- FOR RIGID JOINTS

Clean the area to be repaired by removing loose or flaking parts and apply PRIMAPLUG to the prepared area immediately using either a trowel or spatula and applying maximum pressure. Keep pressing until the product has hardened (approx. 3 minutes).

- SEALING DEEP CRACKS

Apply the hydrophilic expansive sealant inside the cracks and then fill completely with PRIMAPLUG.

### 4 Precautions

- Review all application precautions for application given in the data sheet.
- When sealing cracks that pass through surfaces use in combination with the hydrophilic expansive sealant.
- Do not apply at temperatures below 5 ° C. and not higher than +35°C.
- Do not use the contents of packages that have been opened, damaged or not been stored in a dry place.
- Setting times can vary according to the temperature of the mix water, the product itself and the surface being treated.
- Recommended to use rubber gloves

### 5 Features

Appearance	Powder
colour	Grey
shelf life	12 months
Density	1920 kg/m <sup>3</sup>

#### Application Data

mix colour	Grey
Consistency	Paste
Mix Ratio by weight	approx. 250 g water per 1 kg PRIMAPLUG
Mix Ratio by volume	1 part water to 2.5 parts PRIMAPLUG
temperature of use	+5 to +35°C
Workability	approx. 1 minute (20°C – 50% RH)
Consumption	1.48 kg/dm <sup>3</sup> of cavity

#### Product performance 20°C - 50% rh - 32% water

Mechanical characteristics	Time	Performance (Mpa)
Flexural strength (mpa) UNI EN 196	30 minutes	2.8
	1 hour	2.9
	3 hours	3.5
	5 hours	3.7
	1 day	4
	7 days	6
	28 days	8
Compressive strength (mpa) UNI EN 12190	30 minutes	8
	1 hour	10
	3 hours	13
	5 hours	14.3
	1 day	15



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7 days	18
28 days	25

### Packaging and storage

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PRIMAPLUG is available in:

5 kg, 10 kg and 25 kg drums

If kept in its original packaging and properly stored under cover in a dry place, the product maintains its characteristics for 1 year.

### Safety procedures

As far as the proper working procedures is concerned, we recommend to consult Material Safety Data Sheets issued according to E.U. rules and to follow your national laws concerning safety in the working place. MSDS is available on our web site [www.primaxbuild.it](http://www.primaxbuild.it)

### Trademark and Origin of the good

PRIMAX® is a registered trademark of Bellinzoni company. The law considers a trademark to be a form of property and any misuse can be persecuted by law. Bellinzoni s.r.l. declares that our product PRIMAPLUG is **MADE IN ITALY**.



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