

## HYGROSMART®-PLUG

### Fast Setting Cementitious Water Plug

#### DESCRIPTION

**HYGROSMART®-PLUG** is a high technology, one component cementitious powder that once it is mixed with water, it becomes a very tough and durable fast setting water plug. It has remarkable abilities to stop leaks even for water under pressure. The material is ideal for sealing cracks in applications of negative pressure such as water tanks and tunnels. Because it does not crack and has practically zero shrinkage, it is easily used for local, short-term repair applications.

#### RECOMMENDED FOR

Water Plug for pressure leaks and seepage through:

- Cracks
- Construction joints between concrete and steel

In applications such as water tanks, tunnels, basements etc.

#### LIMITATIONS

- **HYGROSMART®-PLUG** can be applied at temperatures between 5°C and 35 °C.
- Due to its quick setting, use minimal quantities each time that can be applied in seconds.
- For larger volumes, add silica sand 1:1 by volume in order to prolong working time.

#### FEATURES AND BENEFITS

- Easy Application
- Fast Setting
- Rapid strength build up
- Resistance to chemically treated water
- Good adhesion to mineral substrates
- Doesn't contain chlorine ions.

#### APPLICATION

##### Substrate Preparation:

Clean the surface, using jet water if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mold release agents, curing membranes must be removed.

#### PREPARATION / APPLICATION OF MORTAR

**HYGROSMART®-PLUG** is quickly mixed with water (5-6kg water per 20kg of the product). Mix only an amount that can be immediately worked by hand (0.5 lt max).

Apply the material into the leaking crevice or joint and apply pressure by hand until the material is sufficiently hardened. The setting of the material is indicated by a slight heat evolution.

The setting time varies slightly depending on the amount of water added but in the region of 30-45 seconds.

#### PACKAGING

1 kg, 5 kg, 20 kg steel pails

**Color:** Grey

## HYGROSMART®-PLUG

### CLEANING

Clean brushes and tools with plenty of water after use. Hardened material cannot be removed unless mechanical means are used.

### SHELF LIFE

12 months in its original packaging when stored in a cool and dry environment.

### SAFETY INFORMATION

**HYGROSMART®-PLUG** contains cement that when comes in contact with perspiration produces an irritating alkaline reaction. Use protective gloves and goggles. Please refer to MSDS for further information.

### TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	SPECIFICATION
Density of dry mortar	gr/ml	± 1.15
Density of mortar slurry	gr/ml	± 2
Compression Strength	N/mm <sup>2</sup>	± 20
Bending Strength	N/mm <sup>2</sup>	± 7
Pot Life(in pail)	min	± 2

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