



# Supa-Plug HD

## Fast Setting, Hydraulic Cementitious Mortar

### Description

**Supa-Plug HD** is quick setting, hydraulic cement repair mortar which instantly stops running water or seepage leaks in concrete, masonry walls and floors.

**Supa-Plug HD** also chloride free, fast-setting cementitious mortars in prepacked powder form. When mixed with water it becomes an excellent strength, non-shrinking, fast-setting permanent waterplug. It also may be applied under water.

**Supa-Plug HD has been tested by SIRIM BHD, in accordance to BS 6319 Part 2:1983, on Compressive Strength Test and complied with the specification in this data sheet.**

### Uses

It is widely being recommended for: -

- Stopping leaks in concrete basements, tunnels, tanks, swimming pools, walls, hydroelectric structures, oil platforms, and etc.
- For sealing cracks and construction joints in reservoirs and other water-retaining structures
- For rapid anchoring of bolts, conduits, pipes, railings, sanitary equipment, etc.
- Joint filling, pointing between concrete segments in concrete and brick tunnels, sewage systems, pipes and mines

### Advantages

- Easy to use, easy to mix- just add to water
- Excellent water-stopping power and hydraulic resistance
- Develops extremely high early strength
- Excellent bond to the substrate
- Non-toxic after hardening
- Permanent and no cracking
- Chloride-free- does not promote corrosion of the reinforcement

### Standards Compliance

- **BS 6319 : Part 2 : 1983**

### Physical Properties

Time Of Hardening at 25 °C	< 180 seconds
Water Powder Ratio	0.31
Fresh Weight Density (kg/litre)	2.8
Colour	Grey
Appearance after repair	Coarse
pH	7
<b>At Water Powder Ratio of 0.31</b>	
Compressive Strength (N/mm <sup>2</sup> )	
30 mins	> 10
1 day	> 13
3 days	> 23
28 days	> 35

### Application Instructions

#### Surface Preparation

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 at the leaking point to a depth of 25mm and to give a good mechanical key. Feather edges must not be allowed. Remove all chippings, unsound and loose particles and clean surface with water prior to application of **Supa-Plug HD**.

#### Mixing

Clean water should be added to **Supa-Plug HD** in proportions of 1 part clean water: 3 parts **Supa-Plug HD** (measure by Volume), or 1 litre water: 3.2 kg of **Supa-Plug HD**.

Mix to a stiff consistency in a suitable mixing drum or bucket, using a trowel. Due to the rapid set characteristics of the product, only prepare a quantity of mortar, which can be placed within the prescribed set time. Do not over mix.



## Application

Applications can be do whether trowel apply or hand-knead.

The surface of application should be wetted and after mix **Supa-Plug HD** with water, immediately press **Supa-Plug HD** mortar firmly into the opening; exert full pressure, without moving the hand or trowel until it sets. Hold in place for approximately 60 seconds. Minimum thickness of **Supa-Plug HD** is at 15mm.

For application above 50mm deep, **Supa-Plug HD** can be applied in 50mm layers provided being pre-wetted before applying following layers.

## Curing

Final setting time, minutes 2 – 3. Once the placed **Supa-Plug HD** mortar has stiffened sufficiently, dampen with clean water and maintain in a damp condition for a minimum of 15 minutes.

## Cleaning of Tools

All tool and application equipment should be clean immediately with water after use and hardener and cured material need to force by mechanically to remove it. During application, protect floors and surrounding areas from spills and splatters.

## Packing & Size

<b>Supa-Plug HD</b>	5 kg tin
	1 kg tin

## Yield

<b>Supa-Plug HD</b>	5 kg tin is approximately 2.5 litre in volume after mixing
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## Coverage

<b>Supa-Plug HD</b>	0.15m <sup>2</sup> at 15mm thick
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## Technical Support

Easy-Fix Technical Service Department is available to assist you in the correct use of our products.

## Storage

**Supa-Plug HD** should be stored on pallet in dry condition and temperature below 35°C. When properly stored in a dry cool place in unopened and undamaged original packaging, shelf life is 12 months.

If stored in extreme heat locations the shelf life may be reduced.

## Precaution

**Supa-Plug HD** contains cement which is alkaline. Will irritate eyes and skin and may cause skin sensitization. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

## Important Notes:

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