

# Hydro Plug 70

**Rapid Setting Water Stopping Mortar** 

Pack Size 10Kgs, 5Kgs & 1Kg.

TDS
Technical Data Sheet



#### **Product Description**

Hydro Plug 70 is a high-performance, rapid-setting mortar designed for the temporary patching and plugging of concrete segments, tunnel linings, sewage systems, below-ground access chambers, pipes, basements, foundations, and mines. This single-component product requires only the addition of clean water and offers excellent bonding to substrates with minimal risk of thermal cracking.

#### **Advantages**

- · Emergency water-stopping capability
- Single component only the addition of clean water is required
- · Excellent bond to the substrate
- Low exotherm minimizes thermal cracking
- Pre-bagged formulation to overcome variations in site batching
- Contains no chloride admixtures

#### **Features**

Hydro Plug 70 is supplied as a ready-to-use blend of dry powders that produce a highly consistent, rapid-setting mortar. The material consists of a blend of cements, graded aggregates, specialb fillers, and chemical additives that control the rate of set and minimize the risk of thermal cracking. The initial set time is approximately one minute.

# Design Criteria

Hydro Plug 70 can be applied to horizontal, vertical, or overhead surfaces at a wide range of thicknesses. The volume of mixed material used in a single application is restricted to that which can be applied by trowel or gloved hand. Thicker sections can be built up in layers.

### Typical Properties

Compressive strength (BS 6319 Pt 2: 1983): 5 N/mm<sup>2</sup> @ 2 hours & 32 N/mm<sup>2</sup> @ 28 days

Initial set time: Approximately 1 minute

Note: Set times will be extended when mixed at lower temperatures.

#### **Specification**

The water-stopping mortar shall be Hydro Plug 70, a single-component cement-based blend of powders that require only the site addition of clean water. It must be chloride-free and formulated to prevent high exotherm and minimize thermal cracking.

# **Instructions for Use**

#### **Preparation**

Areas to be patched should be cut back to a depth of 15 mm to ensure a good mechanical key. Feather edges must be avoided. The surface should be brushed clean to remove loose material, dust, and laitance

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Grease, slime, or mold growth should be removed by steam cleaning or highpressure water jetting. For light oil or grease contamination, a proprietary degreasing agent should be used. To seal leaks, crack openings must be chased out to approximately 20 mm square, ensuring that all loose material and debris are removed.

### Mixing

Add Hydro Plug 70 to clean water in the proportion of one part water to three parts Hydro Plug 70 (by volume). Mix to a stiff consistency using a trowel or gloved hand in a suitable mixing drum or bucket. Prepare only the quantity of mortar that can be placed within the prescribed set time.

# **Application**

Apply the mixed mortar with a trowel or by hand-kneading, ensuring maximum contact with the substrate before the material sets. When used to plug running water, hold Hydro Plug 70 in place until the initial set is achieved. The minimum applied thickness should be 15 mm.

# **Low Temperature Working**

In cold conditions (down to 1°C), use warm water (up to 20°C) to accelerate strength development. Do not apply when the substrate and/or air temperature is 1°C and falling. Application may proceed at 1°C static temperature or at 1°C and rising.

# **High Temperature Working**

At ambient temperatures above 35°C, store the material in the shade and use cooler water (down to 20°C) for mixing.

## Cleaning

Remove Hydro Plug 70 from tools, equipment, and mixers with clean water prior to initial set. Cured material can only be removed mechanically.

#### Limitations

Do not use Hydro Plug 70 when the temperature is below 1°C and falling. Consult the local Carbolink office if there are any doubts about application or substrate conditions.

#### **Technical Data**

Form:	Dry powder
Compressive Strength	5 N/mm² @ 2 hours & 32 N/mm² @ 28 days
Initial Set Time:	Approximately 1 minute
Coverage	Depends on the volume of material applied
Shelf Life:	12 months from the date of manufacture if stored in original unopened packaging at temperatures between 5°C and 30°C

# **Pack Size**

10Kgs,5Kgs,1Kg.





#### **Data Reliability**

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

#### **Regional Compliance**

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

#### Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.



Carbolink India Pvt. Ltd. Hyderabad-India

Phone: (+91) 92463 99551/ (+91) 88850 99551 Email: info@carbolinkindia.com Website: www.carbolinkindia.com