

## TECHNICAL DATASHEET

# ASCOPLUG

An Ultra-Rapid Setting Hydraulic Cement Mortar



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## PRODUCT INTRODUCTION

ASCOPLUG is an ultra-rapid setting water-resistant hydraulic cement repair compound. It is used for concrete repairs to active water leaks, hydrostatic pressure water leaks, and underwater concrete repairs. This makes it ideal for basement, tunnel, elevator pit, and sewer repairs. It is also used for grouting/anchoring & sealing around bolts, conduits, and pipes.

## KEY FEATURES

1. High strength & controlled expansion
2. Non-shrinking, non-metallic and non-corrosive
3. Initial set in 1 to 2 minutes
4. Stops running water or leakages
5. Can be applied underwater
6. Non-toxic and chloride free

## TECHNICAL PROPERTIES

Appearance

Grey hydraulic cement powder

Setting Time

1-3 minutes

Compressive Strength

≥ 8.5 N/mm<sup>2</sup> @ 1 Day

≥ 20.5 N/mm<sup>2</sup> @ 28 Days

## RECOMMENDED APPLICATIONS

1. Concrete floors and walls
2. Applications include the stopping of running water and seepage through cracks & holes in masonry, walls, dams, wells, tanks, wall and floor junctions, etc.
3. Dams, swimming pools, reservoirs, water tanks & manhole repairs

## APPLICATION METHODS:

### 1. Surface Preparation

Substrates should be clean and free from all contaminants, loose particles, coatings, dirt, mould, oil etc. Substrates must be sound, rough and dampened to ensure a good bond. Before applying ASCOPLUG, chisel out masonry around the hole or crack to a depth and width not less than 25 mm. If the areas to be patched are holding water under pressure, make weep holes at the base of the wall to relieve pressure.

### 2. Mixing

ASCOPLUG should be gradually added to clean water and mixed with a small trowel and mix rapidly with a trowel to the consistency of stiff putty with no slump for no more than 30 seconds. Maximum 0.25 to 0.30 water to powder by weight.

### 3. Condition for Use

- i. Temperature of the material, air and substrate: from minimum + 5 °C to maximum + 35 °C .
- ii. Low temperature increases, while high temperature decreases the working and setting time.

### 4. Application

Hold the prepared ASCOPLUG in a gloved hand until heat generation is felt, then force (maintain pressure on the area) the material into the crack or void. Hardening will take approximately 1-2 minutes. If there is a strong water flow, put material on a board and hold in place for longer period (5 to 6 minutes). After the material has been allowed to harden and no sign of water ingress is visible, it is advisable to overcoat with the ASCOFLEX II system.

## 6. Curing

Under normal circumstances or if the material is to be over coated, then no curing is necessary. Under severe drying conditions, curing compound or polythene sheeting is recommended to prevent rapid drying.

## 7. Tools & Clean Up

Mixing manually within 15 to 20 seconds or with slow speed mixer. Clean tools with soapy water while the material is still fresh.

## 7. Packaging

ASCOPLUG is available in 1Kg, 5Kg pouch and 30Kg bag sealed packing.

## 8. Shelf Life

6 months from the date of production if stored in original, unopened packaging and in places protected from moisture, sun exposure and frost.

## 9. Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

### DISCLAIMER:

*While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at [www.ascolite.in](http://www.ascolite.in). Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.*