



# Technical Data Sheet

## BC WATER PLUG

### Fast-Setting Hydraulic Plugging Compound for Instant Leak Stoppage

#### 1). Product Description

BC WATER PLUG is a fast-setting, hydraulic cement-based compound formulated to instantly stop running or seeping water in concrete and masonry surfaces. It reacts quickly with water to form a dense, watertight seal and expands slightly as it sets, ensuring a durable, permanent repair even under active leakage conditions.

The product is pre-blended and only requires the addition of clean water prior to application.

#### 2). Features & Benefits

- Instantly stops running or seeping water
- Expands slightly as it sets for watertight repair
- Can be applied under water or in damp conditions
- Excellent adhesion to concrete and masonry
- Ready to use – just add water
- Suitable for emergency leak repair applications
- Chloride-free formulation

#### 3). Recommended Uses

BC WATER PLUG is ideal for:

- Basement wall and floor junction repairs
- Manhole and sewer leak sealing
- Concrete pipe and tank repairs
- Stopping water seepage in retaining walls and tunnels
- Plugging active water leaks before waterproofing
- Fixing anchor bolts, railings, and fittings in damp areas



#### 4). Technical Data

Property	Test Method	Unit	Typical Values
Appearance / Color	Visual	—	Grey powder
Density (wet mix)	ASTM C185	kg/L	Approx. 2.0
Setting Time	ASTM C266	min	2–5 minutes
Compressive Strength (50 mm cubes)	ASTM C109	MPa	1 hour: 7 MPa
			24 hours: 20 MPa
			28 days: 35 MPa
Expansion (at set)	—	%	0.4 – 0.8
Water Resistance	—	—	Excellent – sets even under water

#### 5). Application Instructions

##### Surface Preparation

- Remove all unsound material, dust, grease, oil, paint, or other contaminants.
- Remove all loose material and ensure the area is free from standing water.

##### Mixing

- Mix 5 kg of BC WATER PLUG with approximately 0.87 liters of clean, cool water.
- Blend manually or with a low-speed drill fitted with a paddle for about 1 minute to obtain a uniform, putty-like consistency.

##### Placement

- For running water, form the mixed material into a plug and hold it in your hand until it begins to warm (approx. 2–4 minutes).
- Force the plug firmly into the leak or crack and hold under pressure for at least 5 minutes until set.
- For seeping surfaces, apply with a trowel and press firmly to ensure full contact.



## Finishing

- Smooth the surface after the plug has set.
- Once the leak has been sealed, allow the repair to harden before applying subsequent waterproof coatings.

## 6). Coverage

Application rate depends on void or leak size.

Typically, 1 kg of BC WATER PLUG fills approximately 500–700 cm<sup>3</sup> of cavity volume.

## 7). Packing

5 kg moisture-proof bag

## 8). Shelf Life

- 12 months from date of manufacture in original, unopened packaging
- when stored in a dry area between 5°C and 30°C.
- Protect from moisture and direct sunlight.

## 9). Health & Safety

- Contains cement – avoid contact with skin and eyes.
- Use protective gloves, goggles, and dust mask during mixing and application.
- In case of contact, rinse thoroughly with clean water and seek medical advice if irritation persists.
- Refer to the Material Safety Data Sheet (MSDS) for complete health and safety information.

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

