

Hayper Plug

- Description:** *Hayper Plug* is a blend of hydraulic cements, well-graded sands and additives supplied in dry powder form. It requires only the addition of clean water to produce a ready-to-use, ultra-rapid setting, plugging mortar. It is high strength repair material designed to plug leaks instantly in concrete and masonry.
- Usage areas**
- Stops active water or seepage under pressure through joints, cracks and holes in concrete or masonry, where a normal mortar would be washed away and resin would not bond.
 - As a seal for construction joints or floor joints.
 - For sealing cracks and construction joints in reservoirs and other water-retaining structures.
 - For instant sewer connections.
 - Joint filling, pointing between concrete segments in concrete and brick tunnels, sewage systems, pipes and mines.
- Benefits**
- Chloride-free, will not promote corrosion of reinforcement.
 - Expands as it sets to ensure a permanent watertight seal.
 - Mechanical characteristics similar to concrete.
 - Ultra-rapid setting for instant leak plugging.
 - Blocks water, no injection equipment required.
 - Easy to apply (Only to be mixed with water.)
 - Environmentally friendly (Cement based, contains no toxic elements.)
- Shelf life/storage conditions:** 12 months from date of production.
The product must be stored as per local storage regulations and should be kept in dry and well-ventilated location far from heat and direct sunlight.
- Availability:** Available in 5 kg – 10 kg – 20 kg powder
(Packing may vary from country to country depending on local requirements)

PHYSICAL CONSTANTS:



	Shade /Colors:	Gray
	Wet density:	2,14 kg/ltr
	Water Mixing Rate:	± 0,24 (0,22 – 0,26) liters clean water for 1 kg of powder
	Final setting time:	2 – 3 minutes
	Consumption:	1 kg of powder will fill 585 cm³ or a joint 20 mm x 20 mm x 1.45 m approx. 1,7 kg powder / ltr
	Maximum particle size:	0,8 mm
	Mechanical strengths	30 min. > 12 (N/mm²)
Compressive:		24 h. > 20 (N/mm²)
		28 d. > 50 (N/mm²)
	Mechanical strengths	30 min. > 2,5 (N/mm²)
Flexural		24 h. > 4,5 (N/mm²)
		28 d. > 7,0 (N/mm²)
	Curing:	Once the placed Hayper plug mortar has stiffened sufficiently, dampen with clean water and maintain in a damp condition for a minimum of 15 minutes.
	Substrate preparation:	<p>Preferably, cracks or holes should be cut to a minimum width and depth of 20 mm, cutting the sides as square as practicable. Undercut if possible. Avoid leaving a “V “section. Do not featheredge.</p> <p><u>Preparation for plugging active leaks:</u> Cut out the opening to a minimum diameter of 20 mm or until a sound base is obtained.</p> <p><u>Preparation For sealing the wall / floor joint in an existing construction:</u> Cut out the joint/crack at least 20 mm wide and deep, cutting back into the wall slightly.</p> <p><u>For sealing the wall / floor joint in a new construction:</u> When designing, foresee an opening situated at the wall/floor joint (20 mm x 20 mm) to be filled with the product.</p> <p><u>To repair mortar joints and cracks in masonry walls, or cracks in concrete walls:</u> Cut out the defective mortar joints or cracks to a minimum width and depth of 20 mm. Undercut if possible.</p> <p><u>For holes, patches, honeycomb and other construction faults in concrete walls:</u> Remove all tie wires, wood or foreign objects by cutting back the concrete from the surface to a depth of 25 mm.</p> <p><u>For anchoring bolts or metal posts in concrete or masonry:</u> Drill a hole deep enough to secure the bolt or post properly and large enough so there is at least 10 mm on all sides of it.</p>

Application information:**Application For plugging active leaks:**

Form a plug of the mixed material in the gloved hand until slight setting occurs. Then press **Hayper Plug** mortar firmly into the opening; exert full pressure, without moving the hand. Hold in place for approximately 60 seconds. If the opening is too big to be closed with 1 mix of **Hayper Plug**, work progressively from the sides to the middle, following the above procedure. After setting, but not completely hardened, trim off excess material in order to create a uniform level with the surrounding surfaces. Remove from center to sides.

For sealing the wall / floor joint in an existing construction:

Fill the opening with **Hayper Plug** mortar, force into place forming a cove.

For sealing the wall / floor joint in a new construction:

Fill the rebate with **Hayper Plug** mortar, force into place forming a cove.

To repair mortar joints and cracks in masonry walls, or cracks in concrete walls:

Trowel or press into the joint. For holes, patches honeycomb and other construction faults in concrete walls. Fill all holes, patches, honeycombing and other construction faults.

For anchoring bolts or metal posts in concrete or masonry:

Fill the hole with a putty-like consistent mortar and tamp it down so that the entire hole is full. Immediately center the bolt or post over the hole and force it into the **Hayper Plug** mortar. Tamp the **Hayper Plug** mortar firmly around the bolt or post.

Important remarks:

- Newly applied material should not be exposed to frost for 24 hours.
- Do not apply on frozen surfaces.

Cleaning:

Clean all equipment and tools with water immediately after use.

Safety:

The product is based on cement and thus can be irritating to the skin and eyes. Gloves and eye protection should be worn. The use of dust masks is recommended. Accidental splashes of the material to the skin or eyes should be immediately washed off with clean water. In the event of prolonged irritation, seek medical advice. In the case of ingestion, give water or milk to drink and treat symptomatically. Medical advice should be sought. A Material Safety Data Sheet for this product is available on request.