

Super-Plug



Rapid Setting Water Plugging Cement

Description:

Super Plug is a highly reactive rapid setting cement, composed of blend of hydraulic cements, graded fillers and chemical additives. Once mixed with water, the product starts to set within one minute, to provide a permanent watertight seal, plugging active water leaks, seepage holes and cracks in concrete and masonry. **Super Plug** does not promote corrosion on the reinforcements since the material contains special cements and non-metallic fillers.

Typical Uses:

Super Plug is an effective water stopping material for rapid patching and plugging of: -

- Cracks, construction joints in reservoirs and other water retaining structures.
- Active water, or seepage under pressure through joints, cracks and holes in concrete or masonry.
- Construction or floor joints prior to basement water proofing with **Builda Flex** products.

Advantages:

- Rapid water stopping capability.
- Low exotherm, minimizes thermal cracking.
- Chloride free, will not promote corrosion of reinforcement.
- Excellent bond to concrete.
- For interior and exterior use.
- Easy to use, requires addition of water only.
- Nontoxic, suitable for application in potable water tanks.

Technical properties (@25°C & 50% R.H)

Applicable standards :	ASTM C579, C580, B1556-04	
Appearance	Cement grey powder	
Initial setting time	Approx. 30 seconds.	
Final setting time	3-5 minutes	
Compressive strength (ASTM C579)	@ 1 hour	8-10 N/mm ²
	@ 24 hours	16 N/mm ²
	@ 28 day	> 40 N/mm ²
Flexural strength (ASTM C580)	@ 1 hour	2 N/mm ²
	@ 24 hours	3 N/mm ²
	@ 28 hours	7 N/mm ²
Chloride content (ASTM B1556-04)	0.03 %	

Note:- Properties are based on laboratory-controlled tests.

Instruction for use:

Areas to be treated should be chiseled to a minimum depth of 20mm. It is recommended to cut the sides in a square shaped manner.

Feather-edges must not be allowed. The surface must be clean and free from loose material, dust, laitance by grinding and shot blasting. Oil, grease, mold growth should be removed by steam cleaning or high-pressure water jetting.

Mixing:

BUILDA PLUG should be added to clean water in a suitable mixing vessel using a trowel or a gloved hand. Mix to a stiff malleable consistency. Mix only small quantities that can be placed within the prescribed set time.

Application:

Dampen the substrate to a saturated surface dry condition. Apply the mixed material to the crack or joint using trowel or with gloved hand, ensuring maximum contact with the substrate, before the material sets.

For areas with running water, the mortar must be plugged and held in place until the initial set is reached. It is advisable to drill a relief opening which will help reduce the water pressure and allow application of the plugging mixture. If the opening is too big to be closed with 1 mix of **Super Plug**, work progressively from the sides to the middle, following the above procedure.

Cleaning:

All tools and equipment's should be cleaned with water prior to the initial set. Cured material can only be removed mechanically.

Coverage:

1.9 Kg of **Super Plug** plugs one litter volume of repairing area.

Packing:

Super Plug is supplied in 20 Kg metal pail.

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Storage and Shelf Life:

The product has a shelf life of 6 months from the date of manufacture of kept under shade in dry storage in original unopened bags.

Health and Safety:

Super Plug can be harmful to skin as it contains chemical powder which may release alkalis when mixed with water. During application wear appropriate protective clothing, goggles, gloves, and respiratory equipment if necessary.

- In case of contact with skin, rinse with water and again wash thoroughly with soap and water.
- In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.
- If ingested, obtain medical attention immediately.
- Do not induce vomiting.

Refer to product safety data sheet for further details.

Important Note:

The information contained herein is to the best of our knowledge true and accurate and is given in good faith, based on practical experience and applied testing Site or application – specific conditions may vary from those described here and thus the correct and successful use of the product is beyond our sphere of influence. If in doubt, the user should therefore first carry out sufficient tests to ensure the product is suitable. Legal liability cannot be accepted, either solely based on the content of this information sheet or any verbal advice given.

All **IBCF** Datasheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

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