

MASTERPLUG 3

CEMENTITIOUS NON-SHRINK RAPID SETTING MULTIPURPOSE MORTAR

DESCRIPTION

MASTERPLUG-3 is a fast sealing cement based product formulated with selected additives. It sets very fast within a few minutes. It is used in a situation where very quick setting is required. It is effectively used for stopping the flow of running water. It is an ideal material to stop leakages prior to the application of waterproof renderings in basements.

FEATURES / ADVANTAGE

- It is ready to use product and requires only the addition of water at site before plugging and sealing cracks.
- It sets very rapidly thereby, stops leakages.
- It stops running water, reducing damage.
- It is cementitious product and hence it is economical.
- It can be used where quick setting under water is required.
- It is non-shrink as it expands on setting.
- It bonds to the substrate very well.
- It does not affect RCC as it is free from chloride.

TYPICAL APPLICATION

- Used for leak-plugging in running water.
- Used in all places where quick setting is required.
- Used for all plugging work, quick repairs of concrete, screed, plaster and brick work.
- Used for basement and manhole repairs.
- Used for concrete pipes repairs.
- Used for anchoring of bolts and hand rail setting

TYPICAL CHARACTERISTICS

Nature : Single component powder
Color : Cementitious Yellowish grey
Vacate initial set time: 2 minutes at 30°C (setting time will be depending upon climatic conditions)
Expansion : Positive expansion up to 1 to 2 %
Compressive strength at W/P ratio 0.200 : 2 hrs – Min 30 kg.cm²
28 days – Min 350 kg cm²
Chloride content : Nil

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DIRECTION FOR USE

SURFACE PREPARATION

Substrate must be clean and rough. All oil, dirt, debris, paint and unsound loose particles must be removed. For removing oil and grease contaminations Masterklean DGA (chemical degreaser) can be used. The surface must be prepared mechanically using a wire brush. Vacuum cleaner or pressure water jetting may be used for the complete removal of all residues on the substrate. All surface to be dampened with water prior to the application of masterplug-3.

MIXING

Depending on the application, Masterplug-3 has to be mixed with water as follows:

Sr. no.	Application	Nature of mixed consistency	Masterplug-3 by Volume	Water by volume
1.	For anchoring / plugging	Pourable	2 parts	1 part
2.	For filling cracks, potholes, etc.	Filling	3 parts	1 part
3.	For casting machinery foundation	Flowing	3 parts	2 part

1. The water mixed MASTERPLUG has to be used as soon as it is mixed as it hardens within a few minute.
2. The gauging water has to be added in one go.
3. Plan and keep the area ready and then mix masterplug-3 with water. Mix only as much of the material that is required for the immediate application.
4. The mixing can be done by trowel or by hand kneading.

GUIDELINES FOR PLACING / APPLICATION

1. Plugging of running water leakage

Mix Masterplug-3 with water to a pourable consistency. (Refer table) place and hold simultaneously until it reaches initial set. In extreme situations take dry powder of Masterplug-3 in a gloved hand and hold firmly on the substrate against running water to arrest the leakage.

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2. Filling of cracks/ Patching

The area should be widened out and clean cracks to at least 15 mm in width and depth. Place Masterplug-3 of filling consistency (Refer table) in to the prepared crack firmly using a pointing trowel and do the finishing quickly with the same trowel.

3. Bolt and Hand Rail Anchoring

Drill a hole longer than the anchor. Mix Masterplug-3 to a following consistency (Refer table) and fill the area by pouring and tamping into the place around the anchor.

4. To seal leaks

To seal leaks, crack openings are to be cut open to approximately 20mm square. It is recommended to under cut the chase and avoid leaving a V section. Masterplug-3 with pourable consistency has to be used and finishing with trowel to be done immediately.

CURING

Curing with water has to be done as per standard curing procedures. Curing process should be started early to prevent rapid water loss and consequent loss of strength.

CLEANING OF TOOLS & EQUIPMENTS

Tools with wet masterplug-3 can be cleaned with water. Tools with hardened Masterplug-3 can be removed mechanically or using CHOKSEY'S MASTERKLEAN AEA (Acid etching agent)

STORAGE AND SHELF LIFE

The shelf life is one year from the date of manufacture when stored in original, unopened containers. Store in a cool and dry place.

PACKING

1 kg, 5 Kg, & 15 Kg

PRECAUTIONS

- Material should be handled with gloves.
- When it falls on the skin, use plenty of water & soap to wash the skin
- When it is splashed on to the eyes, wash eyes with plenty of water and take medical advice

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DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential non performance.