

# MasterCast<sup>®</sup> 450

## Rapid setting liquid waterproofing admixture to plug active water leakage in concrete

### DESCRIPTION

**MasterCast 450** is a liquid waterproofing admixture. When mixed with cement it produces a rapid setting mortar that sets in few seconds to seal active water leak in concrete.

### PRIMARY USES

- Water retaining structures, basements, lift wells, tunnels and underground structures.
- Stops active water or seepage under pressure through joints, cracks and holes in concrete, masonry or rocks where normal mortar would be washed away and resin mortar will not bond.
- For rapid anchoring of bolts, conduits, pipes, sanitary equipment's, etc.
- Joint filling, pointing between concrete segments in concrete tunnels and pipes
- As a patch repair prior to the application of MasterSeal waterproofing systems

### BENEFITS

- Ultra-rapid setting – Typically 15-20 seconds
- Chloride-free; will not promote corrosion of steel reinforcement
- Easy to use; just add cement
- Non-toxic; suitable for use with potable waterwaterproofing systems

### TECHNICAL DATA/ TYPICAL PROPERTIES

Colour	Light Blue
Specific Gravity	1.250 – 1.270 kg/ltr
Setting Time:	15-20 secon

### PACKAGING

**MasterCast 450** is available in 1ltr and 25 ltr containers

### STANDARDS

ASTM C 494, Type C

### DOSAGE

**MasterCast 450** should be mixed with cement at a mixing ratio of 1 part of MasterCast 450: 2 parts of cement by volume

### DIRECTIONS FOR USE

#### SURFACE PREPARATION

Surface to be plugged must be clean and free from dust, oil, grease and laitance, curing compounds, residual mould oils and other contaminants that could impair adhesion. Preferably, cracks or holes should be cut to a minimum width and depth of 20mm. Avoid leaving a V-section. Do not featheredge.

When plugging active leakage, cut out the opening to a minimum diameter of 20mm or till a sound substrate is obtained.

When sealing holes, honeycombs and other construction mistakes in concrete structures, remove all tie wires, wood and foreign material and cut back the concrete to a depth of 25mm.

Control leakage by diverting water to selected discharge points formed of short lengths or rubber tube set into the substrate. Pre-drill holes to accept tubes.

### MIXING

**MasterCast 450** should be mixed with cement by hand only. Mix quickly to a stiff consistency at the ratio of 1 part of **MasterCast 450**: 2 parts of cement by volume. Do not over-mix.

Mix only the quantity, which can be used immediately.

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## APPLICATION

Form a plug of the mixed material in the gloved hand until slight setting occurs. Then press the mortar firmly into the opening with 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, work progressively from the outside to the middle, following the above procedure.

After setting and before the complete hardening, trim off excess material in order to create a uniform level with the surrounding surfaces. Remove from center to sides.

When sealing holes, honeycombs and other construction mistakes in concrete structures, fill all holes, patches, honeycombing and other construction mistakes by trowel or by hand.

## CURING

Clean all equipment with water, immediately after use. Hardened material must be removed mechanically.

## EQUIPMENT CARE

Clean all equipment with water, immediately after use. Hardened material must be removed mechanically.

## STORAGE AND SHELF LIFE

Store in, cool dry where temperature does not drop below 5oC and does not exceed 30oC. Protect from frost. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal advice, consult BASF's Technical Services Department.

## SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

## NOTS

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative. Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products manufactured by BASF Egypt, or imported from BASF affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, 14001:2015 & ohsas 18001:2007 standards.

Properties listed are based on laboratory-controlled tests.

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