



# MAXFLOW<sup>®</sup> 500

## SINGLE COMPONENT SELF-LEVELLING FLOOR MORTAR, FOR REPAIR AND FINISH OF LARGE CONCRETE SURFACES IN MINIMUM THICKNESS

### DESCRIPTION

MAXFLOW 500 is a self-levelling mortar made of special cements, carefully controlled aggregates and metallic fibres designed just to mix with water.

MAXFLOW 500 shows an extraordinary fluidity and is the suitable material for repairing large floor areas demanding just a few millimetres levelling resistant layer. Areas to be repaired should be horizontal or only slightly sloping.

### USES

MAXFLOW 500 is suitable for repairing and levelling crazed and cracked horizontal sound concrete floors.

### ADVANTAGES

- # One single component. Just add water.
- # Self-levelling. No trowelling required.
- # Pumpable and pourable.
- # High early strength mortar.
- # High impact resistance.
- # Highly resistant to abrasion, ultra-violet rays, ice-thaw and salt effects.
- # Fast curing. Can be opened to pedestrian traffic after 24 hours, light traffic after 48 hours and full service to heavy traffic after 72 hours.

### APPLICATION INSTRUCTIONS

**Surface preparation.** Remove all damaged areas so that only the structurally sound concrete remains. Use MAXPATCH (Technical Bulletin no. 7) to patch cracks and holes deeper than 8 mm. The concrete slab or floor must be free of all dirt, dust, oil, grease, paint, etc. Do not use chemical cleaners.

**Mixing.** Po-ur just 4.8 – 5.0 Litres of clean water into a clean container and add while mixing with a low speed mixer 25 Kg. of MAXFLOW 500. Mix up to 1 minute until a fluid mortar without lumps is achieved. Do not stir excessively the mixture to avoid producing occluded air. Let it rest 5 minutes to allow air bubbles to escape. Mix again briefly.

**Placing.** Before pouring the self-levelling mortar MAXFLOW 500, saturate surface with water, but leave no free-standing water. To improve adhesion apply a primer coat of the bonding resin MAXBOND (Technical Bulletin nº 10.) following its instructions.

Place MAXFLOW 500 and spread with a rubber sponge. Before MAXFLOW 500 begins to set, 30 minutes apply a spiked roller to eliminate air bubbles. To achieve a perfect finish with MAXFLOW 500 we recommend following the basic rules for the application of cementitious materials.

## CAUTION

MAXFLOW 500 should not be applied over asphalt, metal, wood, painted surfaces or frozen surfaces. Do not apply below 5°C or above 40°C. Do not apply in windy weather. Do not use curing compounds.

Spread in sections delimited in advance that should be finished to avoid joints in non desired places. Limits of each section should coincide with contraction or concrete joints on the sub-base of concrete in case they exist. Expansion joints must be respected expressly and sealed with a suitable caulking sealant such as MAXFLEX 100 LM.

## PACKAGING

25 kg. bags and drums.

## STORAGE

12 months in its original unopened container, stored in a dry covered place and protected from frost.

## CONSUMPTION

2.0 kg./m<sup>2</sup> and mm. thickness

## COLOURS

Dark grey. Pearl grey, red and green upon special request.

## TECHNICAL DATA

<b>Fluidity (mm) (H3 x D5 cm cylinder)</b>	140
<b>Open time (min)</b>	30 – 45
<b>Setting time (hours)</b> Initial	1.5 – 2.5
Final	3.5 – 4.5
<b>Density hardened material ( kg/m<sup>3</sup>)</b>	2,000 ± 50
<b>Flexural strength (MPa)</b> 7 days:	6.0
28 days:	10.5
<b>Compressive strength (MPa)</b> 7 days:	29.0
28 days:	39.5
<b>Shrinkage (mm/m)</b>	0.35
<b>Water absorption capillarity(C) g/dm<sup>2</sup>.min<sup>1/2</sup></b>	0.63
<b>Adherence 28 days (MPa)</b>	2.3

## **GUARANTEE**

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