

MasterSeal® 588

An elastomeric, cement based waterproof coating for concrete and masonry

DESCRIPTION

MasterSeal 588 powder is a blend of Portland cements, selected silica sands and modifying agents. When mixed to a slurry consistency with **MasterSeal 588** liquid, an acrylic polymer emulsion, it can be easily applied by brush or roller. It cures to give an elastomeric flexible membrane.

MasterSeal 588 must be reinforced with mesh across all construction joints and cracks. The reinforcing mesh may be either 100% virgin polypropylene or alkali resistant glass-fibre mesh depending on which particular enhanced tensile properties are required, please consult your local BASF Technical Service Representative for further advice on the correct selection of mesh.

USES

- For waterproofing of water-retaining structures which may be subject to movement.
- To protect concrete from water, carbonation and deicing salts.
- Suitable for internal and external use, against positive and negative water pressure.
- Suitable for use in wet area waterproofing where tiles are to be installed directly on top of the membrane using a proprietary tile adhesive.

BENEFITS

- Retains flexibility when submerged.
- Good chemical resistance against soft water, domestic waste water, manure or other liquids moderately aggressive to mineral substrates.
- Withstands occasional foot traffic.
- Freeze-thaw resistant.
- Water vapour permeable.
- CO₂ barrier.
- Once cured, a 2mm thick **MasterSeal 588** membrane will accommodate movement up to 0.6 mm.

COST EFFECTIVE

- Simple and fast method of treating cracks and joints.
- Quick and easy brush or roller application.

EASY TO APPLY

- Can be applied to damp substrates.
- Thin layer application.
- Equipment to be cleaned simply with water.

ENVIRONMENTALLY FRIENDLY

Contains no solvent, safe to handle and use approved for contact with potable water.

TYPICAL PROPERTIES*

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| Wet density | 1.68 kg/l |
| Appearance | Grey |
| Tensile Strength - ANSI 118 / ASTM D751 | >0.5N/mm ² |
| Elongation - ANSI 118 / ASTM D751 | >40% |
| Initial Tensile Adhesion - EN 14891 A.6.2 | >0.5MPa |
| Water permeability - BS EN 12390 Part 8 | Nil |
| Crack bridging ability - EN 14891 A.8.2 | >0.6mm |
| Crack bridging ability with reinforcing mesh - ASTM C836 / C1305 | >1.5mm |

PACKAGING

MasterSeal 588 is available as a 35kg unit (25kg Powder + 10kg Liquid, mix ratio 1:1).

YIELD

Approx. 20.83 litres / 35kg unit.

APPLICATION

Substrate preparation:

The surface to be coated must be clean and sound. Remove all traces of formwork, release agents, previous coatings, laitance, organic growth and any other contaminants that may affect the bond adversely. Suitable cleaning methods include ultra high-pressure water jetting and grit blasting. Aggressive percussive methods such as scabbling or scaryfying are not recommended unless followed by grit blasting, wire bushing or high pressure water jetting. After the above treatment, surfaces must be thoroughly rinsed with clean potable water to remove all dust and loose particles.

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Cracks bolt holes and large surface defects must be cut out and filled solid with **MasterSeal 590** or one of the **MasterEmaco** range of repair material.

Small blowholes in the concrete should be filled with a thixotropic mix of **MasterSeal 588** Powder with reduced liquid content.

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| Pot life | 60 minutes |
| Drying time | 360 minutes |

BRUSH OR ROLLER APPLICATION

10kg **MasterSeal 588** Liquid / 25kg powder.

CURING

Under hot or excessive drying conditions adequate protective shielding should be foreseen.

In cold, humid or unventilated areas it may be necessary to leave the application for a longer curing period. **MasterSeal 588** needs to cure under dry-air conditions. Additional heating and/or ventilation can assist proper curing. NEVER use dehumidifiers during curing periods.

COVERAGE

Approx. 1 litre / m² / coat @ 1mm thickness
2 layers recommended.

An additional 0.5kg/m² is required when embedding MBCC Approved Mesh.

STORAGE

Both components should be stored under cover, clear of the ground and stacked not more than 2 pails and cans or 6 sacks high. Protect the materials from all sources of moisture and frost (+5°C). If possible store cool. Rotate stock in order not to exceed the shelf life of 12 months for pails and **MasterSeal 588** Liquid and 6 months for sacks. Rolls of mesh should be stood on end. Never use solvent based paints.

CLEAN UP AND SPILLAGES

Non hardened material may be removed with water using water.

OVERPAINTING

Do not overpaint **MasterSeal 588** in basements or other structures where the membrane is subject to negative water pressures.

HEALTH AND SAFETY

MasterSeal 588 Powder is cement based and may be irritating to the skin and eyes. Gloves and eye protection should be worn. The use of dust masks is recommended.

MasterSeal 588 Liquid should not be ingested, 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.

A Material Safety Data Sheet for this product is available.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

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