

# MasterCast® 702

Clear water-repellent/primer based on silane/siloxane for the protection of Manufactured Concrete Products such as kerbstones, paving blocks and slabs

## DESCRIPTION

**MasterCast 702** is a single component, clear, deeply penetrating water-repellent specially developed for semi-dry concrete mixes. The product is suitable for the production of kerbstones, paving blocks and slabs.

**MasterCast 702** can protect both vertical and horizontal concrete surfaces from deterioration by atmospheric pollution, water and salt attack.

## TYPICAL APPLICATIONS

**MasterCast 702** is designed to protect the following Manufacturing Concrete Products:

- Kerbstones
- Blocks
- Slabs

## ADVANTAGES

- Provides a long-lasting protection: **MasterCast 702** penetrates deep into the surface acting as a water repellent that prevents water, salts (chloride ion) and atmospheric pollution and from deteriorating the concrete
- Improves the aesthetics by reducing efflorescence, algae growth and dirt build-up
- Surface appearance remains unchanged
- Reduces volatile organic emissions into the atmosphere in comparison with today's commonly used organic solvent-based repellents
- Provides a safer working environment for the applicator by minimising health hazards associated with organic solvents
- Ready for use; no dilution on site, which means constant quality
- May be applied to damp substrates
- Application equipment easily cleaned with soapy water

- Virtually no product evaporates during spray application, therefore more active silane can reach its intended target, so minimising wastage and maximising coverage

## PACKAGING

**MasterCast 702** is available in 20 L pails, 210 L drums and 1,000 L IBCs.

## STANDARDS

EN 1504-2 1.1/2.1/8.1

## TECHNICAL DATA / TYPICAL PROPERTIES\*

Appearance	White (Clear when cured)
Specific gravity @ 23°C	1.01
Non-volatile content	≥ 5%
Moisture vapour transmission	≤ 220 g/m <sup>2</sup> /day
Reduction in absorption (BS 1881-122:2011)	≥ 80%
Reduction in Cl <sup>-</sup> ion Penetration (BS 1881-124:1988)	≥ 90%
Reduction in absorption (whole system)	≥ 95%
Adhesion on concrete	≥ 2 MPa (90% failure on concrete surface)

## APPLICATION GUIDELINES

Concrete surfaces should be cleaned of all sand, surface dust/dirt, oil, grease, chemical films/coatings and other contaminants before application.

Cure in accordance with manufacturer's instructions.

Surface, air and material temperature should be between 5 and 35°C during application.

Surfaces to be treated can be slightly damp, but for best results a dry surface is suggested for maximum penetration.

# MasterCast<sup>®</sup> 702

**MasterCast 702** should not be applied if standing water is visible on the surface to be treated.

Test a small area of the concrete surface before starting general application to assure desired results and coverage rates.

**MasterCast 702** will leave a visible residue on non-porous materials such as glass, metal and painted surfaces. When cured, dried materials can be removed by scraping with a metal blade. Stir material thoroughly before and during application.

## APPLICATION METHOD FOR KERBS

As soon as the units have been taken out of the curing room and thoroughly surface dried to a depth of at least 6 mm, 2 coats of **MasterCast 702** shall be brush applied. When the first coat has dried, the second coat of water-repellent compound shall be applied.

## DOSAGE RATE

Coverage rate may vary with the porosity and finish of the concrete but is typically 3 to 5 m<sup>2</sup>/L.

## STORAGE AND SHELF LIFE

**MasterCast 702** must be stored in a place where the temperature does not exceed 35°C.

If stored in unopened containers or closed bulk tanks according to manufacturer's instructions, the shelf life is 12 months.

## HANDLING AND TRANSPORTATION

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application. **MasterCast 702** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

Re-seal containers after use to avoid accidental spillage.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

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