

# MasterCast® 3937

## Key component of the 4 VALUES technology

**Block sealer for paving stones and other manufactured concrete products (MCP), that provides long-lasting protection of the surface against water, oil and different types of dirt**

### DESCRIPTION

**MasterCast 3937** is a block sealer has been specifically developed for the application on dry and semidry concrete elements: paving stones, flags, etc.

The surface that has been treated with **MasterCast 3937** is water and oil-repellent and additionally repels many types of dirt.

**MasterCast 3937** can be sprayed or rolled on the surface of manufactured concrete products immediately after their compaction and stripping. Once applied, the product does not require any special drying or curing treatment: the elements can be transferred directly to the chamber for curing, as it is normally done.

By using both **MasterCast 3937** and **MasterCast GSC 3026** or **MasterCast GSC 3076** in the concrete mix, it is possible to obtain a TOTAL PROTECTION of the elements: not only the surface is protected, but also the whole body of concrete, thereby assuring improved surface aesthetics in use and minimized efflorescence.

### 4 VALUES:

The 4 VALUE concept is based on the 4 values that are important to the producers of Manufactured Concrete Products (MCP):

### ECONOMY

Optimization of the mix design, acceleration of the production cycle, reduction of scrap.

### PERFORMANCE

Performance improvement of the finite elements, particularly of the splitting tensile strength, according to the requirements of the European standards (EN 1338, EN 1339, EN 1340 etc).

### AESTHETICS

Better surface texture.

### DURABILITY

Better resistance to freeze-thaw cycles.

### TYPICAL APPLICATIONS

**MasterCast 3937** is suitable for the surface treatment of paving stones and any other type of Manufactured Concrete products, i.e. elements made with dry or semi-dry concrete and compacted by vibration or vibro-compression.

### ADVANTAGES

**MasterCast 3937** offers the following benefits:

- Ready to use
- Water-repellency
- Oil-repellency
- UV resistance
- Easy cleaning with water of the surface, after dirt attack
- Superior resistance of the surface from color fading
- Improved resistance to efflorescence

### PACKAGING

**MasterCast 3937** is supplied in 18 L and 200 L drums.

### TYPICAL PROPERTIES\*

Appearance	Milky white liquid
pH-value	7.5
Solid content	Approx. 6%

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## APPLICATION GUIDELINES

**MasterCast 3937** is a liquid product and has been sprayed or rolled on the surface of the fresh elements, immediately after their compaction and stripping.

To achieve optimal results, it is very important to ensure that the spraying system allows a homogeneous and even distribution of **MasterCast 3937** on the surface of the elements.

Please, ask Master Builders Solutions Technical Services for advice on suitable application systems.

The surface protection can be partially lost over the time, mainly due to abrasion; it is recommended to apply **MasterCast 3937** again, to renew the protection effect.

## DOSAGE RATE

The usual recommended dosage for

**MasterCast 3937** is 1 L/10 m<sup>2</sup> of surface.

Different dosages can be used in special cases, depending on the specific conditions of use, based on preliminary tests. The Technical Service of Master Builders Solutions is available with more information and technical support. Production tests should always be carried out to determine the optimal dose and effect.

## TOTAL PROTECTION

To produce pavers or flags with superior quality, it is recommended, beside the surface application of **MasterCast 3937**, to employ the following products in the mass of concrete:

- **MasterCast** for improved compact ability and higher splitting tensile strength (according to EN1338).
- **MasterCast** for the reduction of water absorption (according to EN1338) and the minimization of efflorescence.

- For any recommendation around compatibility with other chemicals or building materials, it is recommended to consult Master Builders Solutions Technical Advisor.

## STORAGE AND SHELF LIFE

Storage conditions: store in original containers and at temperatures between +5°C and +40°C. Keep in the container out of the reach of direct sunlight and protect against extreme temperatures.

The shelf life is 12 months when stored as above.

Failure to observe the recommended storage conditions may lead to premature damage to the product or package.

## HEALTH AND SAFETY

The product is not labelled and when professionally used, has no adverse effects on health. When handling the chemical, please observe normal safety precautions.

First aid instructions, safety instructions and instructions for removing the substance and packages are given in the material safety data sheet.

## 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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