

MasterCast® 193

Waterproofing Compound for Concrete, Masonry, and Block Substrates

Material Description

MasterCast® 193 is a highly penetrative low viscosity emulsion for surface application to concrete, masonry and blockwork surfaces, or for use as a high performance integral waterproofer for wet or dry cast concrete. On curing it provides a waterproof surface/product with minimum effect on the original appearance and texture.

Areas of Application

Surface use:

- Decorative stone and concrete
- Drives and forecourts
- Patios and paths
- Masonry and brickwork
- Concrete walls

Integral use:

- Cast stone
- Concrete bricks, blocks, block paving
- Precast wet or dry concrete

Characteristics and Benefits

MasterCast® 193 offers the following benefits:

- Provides frost resistance
- Inhibits algae and moss growth
- Preserves original appearance
- Stops or reduces efflorescence
- Reduced water permeability
- Improves colour retention
- Low odour, low toxicity formula

Dosage

Dosage rates for integral use will depend on the type of product, mix and degree of waterproofing required.

The normally recommended dosage rate is:

- By Volume - 0.50 to 2.02 litres per 100Kg of cement (binder).
- By Mass - 0.50 to 2.00 kg per 100 Kg of cement (binder).

Technical Properties	
Apperance	White
Specific Gravity (20°C)	0.95 – 1.05 g/cm³
pH Value	6 - 9
Alkali Content (%)	≤ 0.10 by mass
Chloride Content (%)	≤ 0.10 by mass
Corrosion Behaviour	Contains only components according to BS EN 934- 1:2008, Annex A.1
Air Content	Fulfilled
Capillary Absorption	Fulfilled
Compressive Strength	Fulfilled
Durability	NPD
Dangerous Substances	NPD

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Processing Method

(A) Surface Preparation

This product should ideally be applied to new surfaces. Application is possible onto fresh wet or semi dry concrete surfaces that are free from standing water.

It is suitable for older surfaces that have been cleaned abrasively to provide a clean fresh surface. Remove any oil or grease marks etc. Vacuum remove all dust and loose matter etc. If the surface has been washed, allow to surface dry before application.

(B) Processing

Stir before use. Apply MasterCast[®] 193 directly onto the surface in two coats. The second coat should be applied as soon as the first coat has surface dried. All coats must be applied in the one-day. Protect the applied surface for 24 - 36 hours from contamination, traffic or rain.

Avoid contact of the wet product with animals, plants or water features. The product is of low toxicity but can adversely affect the respiration of live plants and aquatic life including fish.

Application may be by brush, roller, spray, flooding or dipping. Do not use below 5°C.

Consumption

The coverage of this product will be highly dependent on surface texture, porosity and application method. More than two coats may be required on highly textured and porous surfaces.

Typically a spray application to a concrete block, block paving will require a coverage rate of 3.5 m² per litre per coat. (Normally two coats)

Point to Consider

- Agitate prior to use in order to avoid possible separation.
- Avoid contact of the liquid product with live plants or aquatic life. The cured product is non-toxic.
- Avoid contact with glass or glazed surfaces, which may be dulled.
- Only use on new or fresh surfaces - this product will highlight and make permanent grease marks, stains, algal growth or efflorescence.
- MasterCast[®] 193 will not directly reduce the slip resistance of the substrate, but as it significantly reduces the porosity of the treated surface, adequate drainage is necessary to avoid water ponding in horizontal areas.
- MasterCast[®] 193 treated surfaces cannot be over coated with any subsequent treatment without abrasive cleaning.

Integral Use

Add to the mix with the mixing water. Some water reduction may be experienced. Setting times and strength development are unaffected. All cast products should be protected from rain for 24 - 36 hours after casting to allow the MasterCast[®] 193 to develop full waterproofing.

Products made incorporating MasterCast[®] 193 can be cured at elevated temperatures and/or humidity's, (not steam). Do not cure products in water.

Maintenance of Treated Surfaces

MasterCast[®] 193 will significantly reduce the deterioration and staining of treated surfaces, but for optimum performance in heavily trafficked areas, regular cleaning should be maintained. Power washing and/or use of scrubber / dryers is recommended.

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Overcoating is not recommended unless carried out after an abrasive clean. The performance life of MasterCast[®] 193 is in excess of 10 years subject to the wear imposed on the surface to which it is applied.

Cleaning of Tools

All the equipment must be cleaned by water immediately after the application.

Packaging

MasterCast[®] 193 is available in 1000 liter IBC's and 30 liter cans.

Shelf Life

6 months if stored according to manufacturer's instructions in unopened container.

Storage

Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep

away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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