

MASTERSEAL™ 380

Penetrative water repellent sealer cum primer for concrete and masonry surfaces

Description

MASTERSEAL 380 is a low viscosity liquid with an optimum concentration of reactive hydrophobic silane-siloxane in a solvent carrier.

MASTERSEAL 380 works by penetrating into the pores of concrete and masonry, forming a hydrophobic polysiloxane lining on the pore walls.

Uses

- To treat concrete against ingress of water and water borne salts.
- To minimise efflorescence in masonry structures
- Exposed bricks & concrete blocks
- As a primer to MASTERSEAL 381 coating

Advantages

- Transparent, Non-staining - Does not adversely change the natural surface appearance.
- Prevent ingress of water borne chlorides and sulphates.
- Solvented – excellent for cold weather conditions
- Allows concrete to breathe.
- Integral protection, can not peel off or erode.
- Protects surfaces from discoloration and pollution.
- Excellent water repellent characteristics.
- Simple spray application.
- Easy and economical to use.
- Chemical resistant to fuels & oils
- Single component, ready to use.
- Compatible with solvented surface coatings.

Typical Properties

Aspect	: Clear free flowing liquid
Mixed density	: 0.79 ± 0.02 kg/litre
Viscosity	: 10 cps at 25°C
Minimum application temp.	: 5°C
Over coating Time	: 120 Minutes at 25°C

Specification Clause:

The water repellent treatment shall be MASTERSEAL 380, reactive hydrophobic silane-siloxane solvented formulation. The product shall have deep penetrating effect and shall not stain the substrate. The product shall reduce the water absorption by the substrate and shall exhibit beading effect to water. The product shall be one component and ready to use and shall not require any dilution at site. The formulation shall be of specific gravity below 0.8 & low viscous. (<15 cps, at 25°C). The product shall exhibit water reduction of not less than 85% when tested as per NCHRP 244 standard. The product shall be applied in two coats at an application rate of 250~400 ml/m².

Directions for use

Surface preparation

New concrete block and brick surfaces must be cleaned to remove all laitance, construction dust and cured materials.

Any surface barrier such as curing membrane, mould release agent, oil, grease may prevent the deep penetrative effect of MASTERSEAL 380 and hence requires removal before commencing the application.

Ensure to remove all contaminants and surface barriers by using mild detergent and water, and by thoroughly scrubbing with a soft brush.

If substrate is contaminated with biological growth such as moss or algae, first treat the substrate using proprietary biocides followed by wet scrubbing to ensure total removal of biological growth.

Repoint any loose, disintegrated or cracked mortar and allow a minimum of 72 hours drying time before application.

Install caulking, sealants and repairs before the application of the MASTERSEAL 380. Sealant must be fully cured before application MASTERSEAL 380.

Application

MASTERSEAL 380 can be used direct from the container, no mixing is required, but stir before use. Do not dilute with water or solvents. Apply by low pressure spray (Knapsack type) or brush ensuring complete surface coverage. Pump and nozzles must be clean and dry for proper application. On vertical surfaces MASTERSEAL 380 should be applied, starting from bottom working steadily upwards in a flood coat so as to produce 150-200mm run down on the surface below the contact point of the spray. When used as a protective impregnation a minimum of two applications is recommended "wet-on-wet".

Application should be at the given coverage rate of 3 – 6 m²/litre per coat.

Avoid application on windy or rainy day.

Watch points

- Surfaces must be dry.
- High winds will interfere with application.
- Protective barriers may be required.
- Protect from inhaling solvent vapours.
- Protect glass, metal, plastic and other non-porous substrate from overspray. MASTERSEAL 380 will not etch glass or metal surfaces, but will leave residue on nonporous surfaces.
- Polymer modified substrate/ white cement based substrate may get darken. Prior site trial advisable to check the effect.
- MASTERSEAL 380 will not inhibit water penetration through unsound or cracked surfaces.
- Do not apply if rain is expected within 12 hours following the application.

Equipment care

Equipment should be cleaned with CLEANING SOLVENT NO. 2 immediately after use.

Coverage

Coverage will depend upon the porosity of the substrate.

Test a small area of the surface (minimum 1.5m x 1.5m) before general application to ensure desired results and coverage rates and to verify application techniques. Allow 5 – 7 days for the product to fully react before evaluating.

Optimum coverage is 4 - 6 m²/litre/coat. Minimum two coats are recommended.

Packaging

MASTERSEAL 380 is available in 20 litre carboys.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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