

MasterProtect[®] H 380

Solvent based silane siloxane primer and penetrative water repellent protective treatment for concrete and masonry

DESCRIPTION

An optimum concentration of reactive hydrophobic silane-siloxane in a hydrocarbon solvent carrier.

MasterProtect H 380 provides a protective impregnating treatment.

MasterProtect H 380 works by penetrating into the pores of concrete and reacting there with the moisture / water vapor present to form a hydrophobic polysiloxane lining to the capillaries.

PRIMARY USES

- Surface applied protection for in situ and precast concrete to prevent ingress of water and water borne salts.
- Reducing efflorescence in masonry structures.

ADVANTAGES

- Prevent ingress of water borne chlorides and sulphates.
- Water vapor permeability unaffected; allows concrete to breathe.
- Excellent penetrative / reactive action.
- Integral protection, cannot peel off or erode.
- Protects surfaces from discoloration and pollution.
- Excellent water repellent characteristics.
- Easy to use, cost effective.
- Simple spray application.
- Single component, no mixing.
- No change in surface texture or appearance subject to satisfactory field trials.
- Compatible with solvented surface coatings.

PACKAGING

MasterProtect H 380 is available in 20 and 210 liter drums.

TYPICAL PROPERTIES*

Appearance	Colorless, clear liquid. Dries to tack-free film.
Specific gravity	0.79 at 20°C
Dry film thickness	n/a - penetrating impregnant
Overcoating time	"Wet-on-wet" application. Second coat can be applied immediately.
Minimum application temperature	5°C

APPLICATION PROCEDURE

Surface preparation:

All surfaces to be treated should be fully cured, dry and free from laitance, traces of mold oils or curing membranes. All oils, greases, previous coatings and laitance should be removed, preferably by dry grit or sand blasting. If wet blasting or water jetting is used the surface must be allowed to dry out before application of **MasterProtect H 380**. Slightly damp substrates can be treated. Surfaces should be dry with no wet spots.

Application:

MasterProtect H 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 or brush ensuring complete surface coverage. On vertical surfaces **MasterProtect H 380** should be flooded on starting at the bottom, working steadily upwards. When used as a protective impregnation a minimum of two application is recommended "wet-on-wet" with immediate application of second. Application should be at the given coverage rate of 3m²/liter.

Since **MasterProtect H 380** reacts with atmospheric humidity, prolonged contact with air should be avoided. Keep containers sealed when not in use.

For best results do not apply **MasterProtect H 380** in direct sunlight.

COVERAGE

Coverage will depend upon the porosity of the substrate. Optimum coverage is 3-6m²/liter/coat.

WATCHPOINTS

- Surfaces must be dry.
- High winds will interfere with application.
- Protective barriers may be required.
- Ensure adequate ventilation.
- Trial applications should be carried out to ensure compatibility with substrate.

EQUIPMENT CARE

Equipment should be cleaned with **MasterTop THN 2** immediately after use.

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STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is at least 12 months when stored as above in unopened containers.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions'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. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation. For further information, refer to the material safety data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

Should you require any further information, please do not hesitate to contact us:

www.master-builders-solutions.com/en-sa

enquirycc.saudi@mbcc-group.com

M: +966 13 853 8600

Master Builders Solutions Saudi Arabia for Manufacturing LLC.

P.O. Box 1884, Al Khobar, KSA

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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