

MASTERSEAL[®] 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.

MASTERSEAL[®] 380 provides a protective impregnating treatment.

MASTERSEAL[®] 380 works by penetrating into the pores of concrete and reacting there with the moisture / water vapour present to form a hydrophobic polysiloxane lining to the capillaries.

Primary uses

- Colourless 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 vapour 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.
- Compatible with solvented surface coatings.

Packaging

MASTERSEAL[®] 380 is available in 20 and 210 litre drums.

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Appearance:	Colourless, 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 mould 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 MASTERSEAL[®] 380. Slightly damp substrates can be treated. Surfaces should be dry with no wet spots.

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 or brush ensuring complete surface coverage. On vertical surfaces MASTERSEAL[®] 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/litre.

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Since MASTERSEAL[®] 380 reacts with atmospheric humidity, prolonged contact with air should be avoided. Keep containers sealed when not in use.

Coverage

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

Watchpoints

- Surfaces must be dry.
- High winds will interfere with application.
- Protective barriers may be required.
- Ensure adequate ventilation.

Equipment care

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

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 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. 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 BASF representative.

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

Quality and care

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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