



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Febsilicon Data Sheet

Specification notes

Product: **Febsilicon**

Supplier:

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FEBSILICON

Colourless Silicone Based Surface Applied Water-Resisting Compound

Description of Product

FEBSILICON is an external surface applied water-resistant compound for brickwork and certain types of natural and artificial stonework. FEBSILICON penetrates deeply beneath the surface to deposit a silicone barrier in the capillary channels, substantially reducing rain penetration and helping to keep the surface clean.

FEBSILICON conforms to the specification of BS 6477, Groups 1 and 4.

Fields of Application

To substantially reduce the water permeability of external brickwork, weathered asbestos sheeting and certain types of artificial stonework, suitable for application to vertical surfaces only.

Features and Benefits

- Deeply penetrating, water repellent
- Colourless, long lasting
- Protects surface from discolouration due to pollution
- Helps to reduce efflorescence
- Economical and easy to use

Technical Data/Typical Properties

Appearance	Colourless
Composition	Containing the optimum concentration of silicone resins with hydrocarbon solvents. The efficiency of FEBSILICON as a colourless permeability reducing compound is further improved by the addition of a dispersing agent ensuring maximum depth of penetration and rapid formation of a water repellent surface.
Colour	Colourless
Specific gravity	0.79 at 20°C
Flashpoint	32°C

Action

When applied by brush or spray to surfaces of natural stonework, brickwork, certain types of concrete block, artificial stonework and cement paint, it penetrates deeply beneath the surface to line the pores with a thin water repellent coating without significantly changing the appearance or affecting the breathing property of the wall. This substantially reduces rain and damp penetration, protects the surface from discolouration and weathering and aids in preventing efflorescence and spalling of the surface from frost attack. In industrial areas, the sealing of masonry with FEBSILICON protects the surface from attack by the acidified atmosphere and aids in preventing discolouration by smoke.

Effect on Thermal Insulation

Loss of heat through wet brickwork, etc., is one and half times greater than when it is dry. Prevention of rain and damp penetration with FEBSILICON therefore aids in preserving the heat insulating properties of the wall.

Effect on Masonry

The application of FEBSILICON does not significantly change, darken or form a sheen on the surface treated. If required, the surface can be decorated afterwards with oil paints.

Application Procedure

Preparation of Substrate

The surface to be treated should be dry and free from loose matter. Defective joints in brick and stonework should be repointed. It is not necessary to treat hair cracks, but large cracks should be made good and allowed to dry before treatment. Efflorescence should, as far as possible, be removed by brushing the surface of the repointed areas.

Application

Stir before use. Apply by brush or low pressure spray in one coat., in conditions of adequate ventilation. The FEBSILICON is flooded on to the surface so that a run down of approximately 300mm is obtained.



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Coverage

Coverage will vary according to the porosity of the surface treated and will be from 6m² per litre on hard brickwork to 3m²/ltr on highly porous surfaces (the latter may require two coats).

Cleaning

Clean all equipment and brushes immediately after use with Feb Cleaning Solvent or white spirit.

Packaging

FEBSILICON is available in 2.5, 5, 25 and 205 litre containers.

Storage

Keep away from food. Store in unopened containers in cool, dry conditions away from sources of ignition and heat.

Shelf Life

Up to two years when stored as recommended.

Watchpoints

If allowed in contact with glass, wood, metal or similar, permanent staining will result.

FEBSILICON should not be used below damp proof course level, below ground or internally.

Some concrete blocks that are not dense may not be suitable for silicone treatment. Trial test before proceeding.

FEBSILICON may inhibit adhesion of subsequent renders and/or coatings.

Do not use on fresh mortar or render. Allow to weather for at least two months.

FEBSILICON should always be trialled before use on any substrate where final aesthetic appearance is considered vital as on certain substrates discoloration or glossiness may be apparent e.g. natural stone historic buildings etc.

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FEBSILICON BASF Construction Chemicals UK Ltd Version 4, July 2006

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 vapour 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.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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