



Sealex Industries

Waterproofing Systems, Sealers & Sealants

SF1000

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Description

SF1000 is a cement based 2 part polymer modified waterproof slurry coating. It is applied to concrete, masonry and mortar to prevent water infiltration.

Advantages

- Pre-batched components – mixes and applies easily
- Non-corrosive to steel or iron
- Increased salt and frost resistance
- Protects against concrete carbonation and water
- Good adhesion to sound, prepared substrates penetration
- Slurry or trowellable consistency
- Non-toxic – suitable for contact with drinking water
- Permeable to water vapour, allows substrate to breathe
- Effective against, both positive or negative water pressure

Uses

SF1000 is suitable for the following applications:

- Internal & external basement walls
- Protection of concrete structures against the effects
- Fine “hairline” cracks in concrete of carbon dioxide, de-icing salts and freeze thaw
- Water tanks, swimming pools etc
- General Interior and exterior waterproofing
- Retaining walls
- Seawalls
- Bathroom floors
- Terraces and balconies
- RC gutters and planter box
- Potable concrete water tanks

Physical Properties

Form / Colour • Part A White Liquid Density A+B (Mixed) 1.9-2.0kg per litre (Ratio 1A: 4B) • Part B Grey or white powder Adhesive strength 1.0 to 1.5 N/mm² (on concrete) • PartA+B Grey slurry Pot life 30min at 25°C

Mix Ratio Part A: Part B 1:4 W/W

Technical data

Coefficient of Permeability, K(m/sec – under 3kg/cm² of water pressure) • Mortar (Grade 20N/mm²) 6.49*10⁻¹¹

• Mortar coated with SF1000 1.27*10⁻¹²

• Comparative ratio 0.02

Typical results • E-modulus (Static) ≈8.400 N/mm² • CO₂ Diffusion Resistance 37,015μ • Water absorption A (kg per m², h^{0.5}) Concrete 0.66 , Concrete Coated with SF1000 0.035 • Water vapour resistance (Sd in m) Concrete 1.7 , Concrete Coated with SF1000 2.06

Application Directions

Surface Preparation

Concrete, mortar and masonry surfaces must be clean, free from grease, oil, laitance, loosely adhering particles and sharp edges. Absorbent surfaces have to be thoroughly saturated with water prior to application or first coat of SF1000. However, no loose standing water should be on the surface before application. All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25mm x 25mm. Note: SF1000 will not bond to surfaces that have been treated previously with water repellent.

Mixing

Under normal circumstances, when the full quantities of both parts are mixed together, a slurry consistency will result. The consistency of the mix can be altered by reducing the amount of Part A (liquid) to be used. For trowel application, use only 90% of Part A (approximately 4.5kg). Do not add water or any other mixtures and compounds. Mix in clean container by slowly adding the powder component (Part B) to the liquid component (Part A) and stirring with a low speed mixer (500rpm). Use within 30 minutes.

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Application

Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4-8 hours at temperatures above 20°C before applying the second coat. For slurry consistency, apply with a hard plastic bristled brush or broom. For floor applications, to avoid risk or damage to the first coat, it is recommended that the second coat be applied before 24 hours. If the second coat is applied 12 hours or later, the first coat shall be slightly pre wetted, preferably by using a fine spray. After the second coat has been applied, better finishing can be achieved by rubbing down with a soft, dry sponge. SF1000 can also be applied by trowel or by spraying.

Over coating

For over coating with cementitious material, allow the second coat to harden at least 3 days prior to over coating. For over coating with non cementitious materials please refer to our Technical Service Department.

Curing

Generally not required but precaution should be taken for application done directly under sunlight and in windy conditions. It should also be protected from direct rain for at least 4 hours.

Estimating Data (Theoretical)

• Bathrooms, terraces and balconies is 1kg per m² per coat, as protective coating is 2kg per m² per coat. • Coating <1 meter water head is 1.5kg per m² per coat, >1 meter water head is 2.0kg per m² per coat Note: SF1000 must be applied in a minimum of 2 coats (3 coats may be required in areas of extremely high infiltration)

Packaging

25kg kits (Part A: 5kg containers and Part B: 20kg bags)

Shelf life

12 months from the date of production when stored in original unopened packaging in a dry cool place.

Important Notes

• Minimum ambient and substrate temperature is 8°C - Optimum application temperature should be from 8 °C to 32 °C • Never apply more than 4kg per m² of SF1000 in one single layer. • Apply only to clean, sound substrates – surfaces should be well dampened but free of surface water and leaks. • SF1000 is not a decorative treatment and may display signs of “blooming” in damp weather conditions. This does not affect the quality of the coating in any way. Where a decorative finish is required, over paint SF1000 with any approved Sealex protective and decorative coating. • For potable water application, wash the surface with water before use.

Cleaning

Clean tools and equipment immediately with water. Hardened material can only be removed mechanically.

Safety

Sealex SF1000 is not classified as dangerous and is not toxic but precautions should be taken while using the product. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles, mask etc. In the event of contamination was thoroughly with water. If the eyes or mouth are affected, wash with clean water immediately and seek medical attention. For more information, please refer to our Materials Safety Data Sheet.

Statement of Responsibility

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by Sealex Systems either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Sealex Systems are responsible for carrying out procedures appropriate to a specific application.

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