Construction

Sika® Cemflex®

Acrylic polymer for making flexible cementitious waterproofing slurry

Product Description	Acrylic polymer dispersion for making cement based waterproofing slurry coating.
Uses	It's used for external and internal waterproofing in the following structures: ■ Water tanks ■ Basements ■ Flat roofs terraces and balconies ■ Bridges ■ Retaining Walls ■ Sea Walls
Characteristics / Advantages	It provides the following beneficial properties: ■ Easy to apply by brush, slurry consistency ■ Good adhesion to sound & prepared substrates ■ Good abrasion resistant ■ Protects against water penetration, salt & carbonation ■ Non-toxic when cured, suitable for contact with drinking water ■ Non-corrosive to steel & iron
Coverage	Depending on type of application, 2 coats are always required. Consumption of Sika® Cemflex® is 0.8 kg/m² for two coats. Normally two coats should be applied. In extreme cases three coats may be required.

Product Data

Form

Appearance / Colour	White (milky), liquid
Packaging	20.0 kg container 50.0 kg container 100.0 kg container

Storage

Storage Conditions / Shelf Life	12 months from date of production if stored in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight. Protect from frost.

Technical Data

Chemical Base	Acrylic dispersion
Polymer Content	~ 16.0 % by weight

Specific Gravity	~1.03 kg/l
pH	>6.5
Chloride	No added chloride
Viscosity in seconds(B4 Ford Cup. 30^0 C	15
Pull out Bond Strength by OPC at 28 day (cement : polymer= 2:1 by wt.)	Control= 0.45 N/mm^2 ,With Sika® Cemflex® = 1.10 N/mm^2
Flextural strength(OPC)	28 day = 8.50 N/mm^2
Water absorption	Control = 24.0%, With Sika® Cemflex® Coated =6.0%
Substrate Temperature	+10°C min. / +40°C max.
Ambient Temperature	+10°C min. / +40°C max.

System Information

Application Details

Substrate Quality	Concrete, mortar and masonry surface must be clean, free from grease, oil and loosely adhering particles. Steel and iron surfaces must be free from scale, rust, grease and oil. All surface must be as true and flat as possible.
Substrate Preparation	Saturate absorbent surface thoroughly. Efficient surface preparation is essential to achieve high adhesive quality of the product.

Application Instructions

Mixing	A prebatched mixture of good quality cement with clean fine sand (500 microns) should be prepared with cement and sand in equal proportions by weight. This should be mixed with Sika® Cemflex® in proportion of one part of Sika® Cemflex® to four parts of mixture to form slurry. For trowellable consistency or putty, the proportions of Sika® Cemflex® should be reduced accordingly. The mixing of slurry should be done in a clean container by slowly adding the powder component to Sika® Cemflex® and stirring with a slow speed mixer (500 - 600 rpm). Mixing should be done until the consistency is free from lumps.
Application Method / Tools	Dampen all surfaces immediately ahead of the slurry application. Whilst the surface is still damp from saturation, apply the first coat and leave to harden (2-6 hrs.). For slurry consistency apply with a hard plastic bristled brush or broom. For trowellable mortars use a notched trowel. After the second coat has been applied, finish by rubbing down with a soft dry sponge. For water proofing slurry should be applied at the rate of 3-4 kg/m^2 for two coats.
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.
Potlife	20 minutes at +27°C

Curing Details

Curing Treatment	As with all cement based products, curing is important. Protect the freshly applied product against direct sunlight and strong winds. Use damp hessian or polythene to aid curing, for 3 days. Then allow to dry out.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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