

PRODUCT DESCRIPTION

Two-component, modified, flexible cementitious High Performance Waterproof protective coating system in slurry form (with crack-bridging capacity > 2 mm) applied for waterproofing balconies, terraces, bathrooms and swimming pools.

WHERE TO USE

Jemshield CT Smart is used as a waterproofing treatment for large roofs, basement rafts, against rising dampness, retaining structures, water bodies, reservoirs, balconies, bathrooms, sunken areas, fountains, bridge decks, podium, and terraces, particularly suitable for waterproofing irregular surfaces.

Jemshield CT Smart is also used to protect concrete structures, renders with hairline cracks and cementitious surfaces in general which, being subject to sudden vibrations, leading to cracking. Waterproofing plasterboard, render or cementitious surfaces, lightweight cement blocks and marine-grade plywood. Flexible protection layer of new concrete structures or repaired structures subject to minor deformation under load.

Jemshield CT Smart can be reinforced with fiberglass mats and also used as anti-carbonation coating.

CHARACTERISTICS/ ADVANTAGES

- High performance: a 2 mm thick film can accommodate cracks upto 2 mm width.
- Develops excellent bond with most of the building materials.
- Prevents peeling and blistering.
- Excellent waterproofing membrane with strong adhesion to

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	substrate. Bonds to both porous and non-porous surface.
	<ul style="list-style-type: none">● Breathable: Allows water vapour from the interiors of the substrate to come out.● Non-toxic. Suitable for drinking water use.● Chloride free hence does not affect RCC● Excellent resistant to atmospheric carbon dioxide and chloride ion diffusion.● Excellent mechanical characteristics.● Fluid consistency for easy application.● Resistant to UV rays.● May also be applied on existing coverings.
APPEARANCE / COLOUR	Part A: Grey Powder Part B: Milky Liquid
PACKAGING	30 kg :Component A: 20 kg ; Component B: 10 kg
STORAGE/ SHELF LIFE	Component A may be stored for up to 12 months when contained in its original sealed packaging in a dry place. Component B may be stored for up to 24 months.
CHEMICAL BASE	Part A: Grey Rapid setting Cement, additives Part B: Polymer and additives
MIX DENSITY, GM/ CC	1.7
DRY SOLIDS CONTENT (%) :	Component A: 100% Component B: 53%
MIXING RATIO	Component A : Component B = 2 : 1

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APPLICATION TEMPERATURE RANGE +8°C to +35°C

MECHANICAL/ PHYSICAL PROPERTIES

Tensile strength at 14 days, Mpa 5 (minimum with fibre mesh)

Elongation % at 28 days, 120

Crack Bridge properties 2mm

DFT 2 mm

WATER VAPOR PERMEABILITY passes

ABRASION RESISTANCE CM/KM passes

Adhesion to concrete >1 Mpa

APPLICATION DETAILS

CONSUMPTION /DOSAGE Jemshield CT Smart ~ 1.6 kg/m²/ for 1mm thickness

SUBSTRATE PREPARATION / APPLICATION PROCEDURE The substrates must be sound, dry, free of dust, loose particles, wax, oils, rust, curing compounds and traces of paint and gypsum. Any laitance or weak layers from cement based surfaces must be removed. Dusty or very porous concrete surfaces must be cleaned then treated with a coat of Jembond ACP 01/ 16.(Dilute 1 part Jembond ACP 01/ 16 with 1 part of water)

SUBSTRATE TEMPERATURE +8°C min. / +35°C max

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MIXING

Pour component B (liquid) into a suitable, clean container. Then slowly add component A (powder) while stirring with a mechanical mixer. Carefully mix Jemshield CT Smart for a few minutes, making sure that no powder remains stuck to the sides or the bottom of the container. Keep stirring until a perfectly homogenous mix is obtained. Use a low-speed mechanical mixer for this operation to avoid too much air entering the mix. Do not prepare the mix by hand. Preparation of Jemshield CT Smart may also be carried out with a mortar mixer, which is usually supplied with mortar sprayers. If this technique is used, make sure that the mix is homogenous and has no lumps before it is poured into the hopper of the pump. Jemshield CT Smart must be applied in at least two coats by trowel or with a roller within 60 minutes of it being mixed, to give a thickness of at least 2 mm.

APPLICATION PROCESS & TOOLS

Apply using a short, stiff bristle brush or roller. It can be applied by trowel also. Care should be taken to see that more than 2.0 kg/m² (1mm thickness) thick layers are avoided, as higher thickness tends to provoke cracks in the system. If required, Embed fiberglass mesh for better reinforcement on first coat immediately while the coat is wet. The second coat can be applied after 12 hours or after the previous coating has dried. Application of Jemshield CT Smart has to be followed by a plaster or screed application especially when it is exposed to open traffic on roofs.

RECOMMENDED UNDERCOATS & OVERCOATS

Do not apply Jemshield CT Smart at temperatures lower than +8°C. Do not add cement, aggregates or water to Jemshield CT Smart. Protect from rain and water spillages for the first 24 hours after application. Do not leave Jemshield CT Smart exposed in swimming pools. Do not apply on lightweight substrates. Do not apply on cementitious substrates not sufficiently cured. During hot weather, it is advisable to keep the product out of direct sunlight before use (powder and liquid). After application, and in

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particularly dry, hot or windy weather, we recommend that the surface is protected from rapid evaporation with sheets.

CLEANING

Due to the high bonding strength of Jemshield CT Smart, even on metals, we recommend that work tools are washed with water before the mortar sets. Once it has set, cleaning may only be carried out by mechanical means.

CURING DETAILS

POTLIFE

Temperatures	Time
from +5°C to +35°C	20 to 30 minutes

SETTING TIME

Temperatures	Minimum	Maximum
+25°C	24 Hours	48 Hours

(Optional) Light sanding advised after maximum time.

APPLIED PRODUCT

READY FOR USE

Temperatures	Minimum	Maximum
+25°C	24 Hours	48 Hours

Times are approximate & will be affected by changing ambient & substrate conditions.

CLEANING/ MAINTENANCE

Prior to setting, Jemshield CT Smart can be cleaned and removed from tools and hands with water

VALUE BASE

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

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HEALTH & SAFETY

Jemshield CT Smart should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. Should Jemshield BTP come into contact with skin, remove before hardening by washing with soap and water. Should accidental eye contact occur wash with plenty of water and seek medical advice. If swallowed seek medical advice immediately. Do not induce vomiting. For full health and safety data refer to Product Safety Data Sheet

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Jemkon's products, are given in good faith based on Jemkon's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Jemkon'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. JEMKON 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 Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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