



PACTOProof FlexSeal 100

Flexible Cementitious Waterproof Membrane

WATERPROOFING

DESCRIPTION

PACTOProof FlexSeal 100 is a two component polymer modified cementitious coating. The product may be trowel, brush or spray applied to provide a flexible, waterproof barrier.

TYPICAL USES

PACTOProof FlexSeal 100 may be used where there is a requirement to exclude water from a building or retain it within a structure. The material is particularly effective where there is a requirement for crack bridging capability, typically in the following situations:

- Potable water containers, tanks and reservoirs
- Swimming pools and silos
- Waterproofing planter boxes
- Waterproofing new and existing buildings
- Foundation protection
- As a backing to marble and granite to prevent water ingress and thus alleviate surface staining
- Protection against brackish water
- Coating seawater channels
- Protection of concrete against carbonation and chloride ion attack

ADVANTAGES

- Withstands high hydrostatic pressures
- High bond strength to concrete and masonry
- The coating provides effective anti-carbonation cover equivalent to many times its thickness in concrete
- Excellent crack bridging capabilities even after long periods of immersion
- Long pot life even at high temperatures

RELEVANT STANDARDS

B.S. 6920 Effect on water quality

WATER REGULATIONS ADVISORY SCHEME LTD.

(WRAS), Approval Number: 1902502 with expiry date up to 29/02/2024

B.S. 1881 Part 122

DIN 1048: Water penetration test

TECHNICAL DATA

Characteristics	Value
Pot life @ 20°C	45 mins
Colours	Grey, Off-White
Pull off Strength (ASTM D4541)	> 1N/mm ²
Tensile Strength (ASTM C307)	>2.4 N/mm ²
Crack Bridging Ability as per (ASTM C1305)	0.5 mm
Depth of water penetration under pressure of 5 bars as per (BSEN 12390-8)	No Leakage Observed
Flexural Strength (ASTM C580)	> 4.0 N/mm ²
Service Temperature	- 5°C to 80°C
Min. Application Temperature	5°C
VOC (USEPA 24)	<1 g/L

CHEMICAL & WEAR RESISTANCE

PACTOProof FlexSeal 100 resists diesel, petrol, calcium chloride and mild inorganic acids.

PACTOProof FlexSeal 100 also has excellent resistance to weathering and can accept normal foot traffic.

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **PACTOProof FlexSeal 100**

The substrate must be clean and completely free from contaminants including grease, oil and loose material. Any repairs should be carried out using **PACTORep** cementitious repair mortars.

Mixing

The product cannot be mixed by hand.

The liquid should be poured into 25 litre plastic or metal drum. The powder should be added slowly whilst mixing with a spiral paddle attachment on a slow speed electric drill. Mixing should continue until the product is lump free and for a minimum of 5 minutes.

Application

The prepared substrate should be dampened using a fine water spray. Care should be taken with porous substrates as more extensive pre-soaking will be required. Any free water on the surface



should be removed immediately prior to applying **PACTOProof FlexSeal 100**.

While the substrate is damp but free from standing water, apply the mixed product by medium hard short bristle brush, trowel or roller checking that the first coat is at a minimum wet film thickness of no more than 1.5mm and no less than 0.5mm. The product should always be finished in one direction.

The second coat should be applied as soon as the first coat is set hard, normally after a minimum of 3 hours @ 25°C and longer at lower temperatures. This second coat should again be finished in one direction (at 90°C to the first coat)

The total thickness should be 1-2mm on walls and 1-3mm on floors depending on the anticipated water pressure. As a general rule, the total coating thickness should be:

- 1mm on walls and floors where the hydrostatic pressure is not likely to exceed 0.5m
- 1.5mm on walls and 2mm on floors for hydrostatic pressures up to 3m
- 2mm on walls 3mm on floors in situations where greater hydrostatic pressures will be experienced

CURING

Normally **PACTOProof FlexSeal 100** does not need to be cured; however, in hot conditions where there exists high air movement, protection against premature drying is essential.

If spray application is considered, contact our Technical Service section for further information.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using water as, on hardening, the material can only be removed mechanically.

PACKAGING AND YIELD

PACTOProof FlexSeal 100 is supplied in 22.1kg two part packs (17 kg powder and 5.1 kg liquid)

A complete mixed pack will cover approximately 6.4 m² at 2 mm thickness, 8.5 m² at 1.5 mm thickness depending on the substrate profile.

STORAGE AND SHELF LIFE

When stored in a cool environment, in original unopened containers, the material has a shelf life of 12 months.

HEALTH AND SAFETY

PACTOProof FlexSeal 100 contains alkalis and protection should be provided to prevent contact with skin and eyes. Inhalation of dust must be avoided whilst mixing. Gloves, goggles and a dust mask must be worn.

Eye Contact

Rinse with copious amounts of clean water and seek medical attention.

Skin Contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

FLAMMABILITY

PACTOProof FlexSeal 100 is non-flammable.



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