

CEMENTITIOUS - POLYMERS FLEXIBLE WATERPROOFING MEMBRANE, TWO COMPONENTS

DESCRIPTION

SMARTFLEX is a liquid - applied waterproofing membrane. It is a unique blend of special cement polymer and fine quartz. **SMARTFLEX** is supplied in two component sets. When mixed, the two components form an easy to apply slurry. The **SMARTFLEX** slurry dries to form a flexible waterproofing membrane. This membrane can bridge cracks and is firmly bonded to the substrate. **SMARTFLEX** is non-toxic and is specially suited for damp surfaces. **MARTFLEX** a superior formulation with high polymer content. This product has good elongation & bond strength capabilities and is suitable for a wide range of water-retaining / water-excluding structures. Typically used for: Swimming pools, Basement, Water tank, Lift pit, Terrace, Roofs, Bathroom, Water tanks, Green roof - Planter box (grass, shrubs, not a big tree: bamboo, coconut,...)

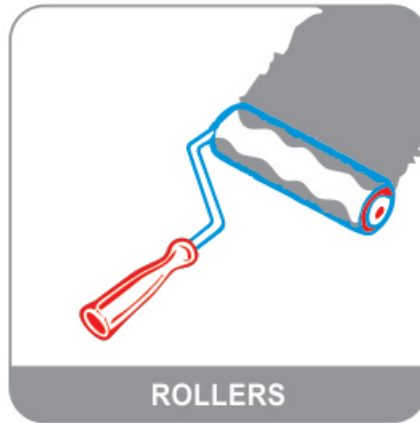


PACKAGING & COVERAGE

The **SMARTFLEX** packed 20,00 kg / set of two component: (Component A- 6,00kg) and (Component B-14,00kg). Normal consumption: @ 1.5kg / m² / 2 coats, thickness 0.8 - 1.0mm. Depending on the surface conditions, Items to be waterproofed, the consumption can be changed.

TECHNICAL DATA (Depend on the testing method & surface condition)	RESULT
Substrate adhesion	0.8 -1.5 N/mm ²
Crack-bridging width without reinforcement	Up to: 1.0mm
Crack-bridging width polyester / polyglass fiber reinforcement	Up to: 3.0mm
Tensile Strength	2.0 - 2.5 Mpa
Flexural strength	≥ 10 N/mm ² (28 days)
Elongation at Break	130 - 200%
Compressive strength	40 N/mm ²
Water pressure resistance	Positive: 7 bar / Negative: 3 bar
Pot Life	15 - 180 min after mixing

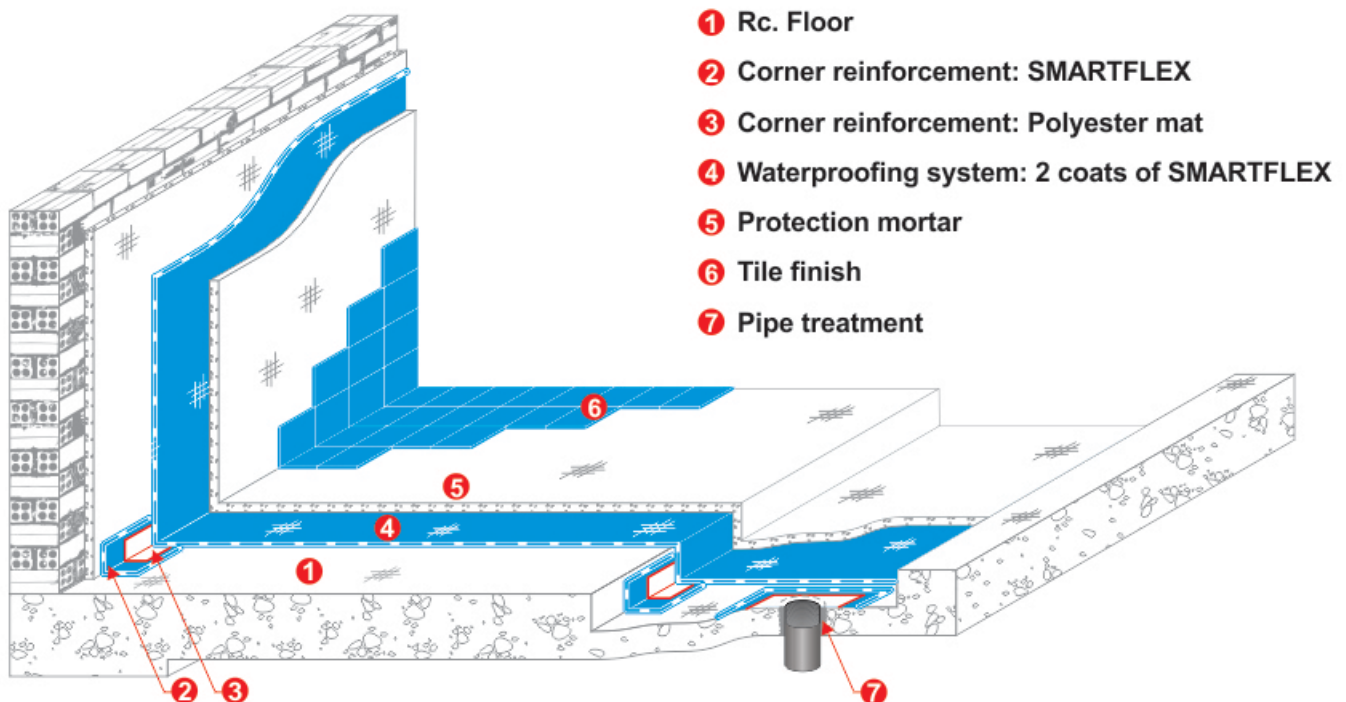
APPLICATION TOOLS



FEATURES

- **DAMP SURFACES:**
SMARTFLEX is a cement-based product & is specially suited for application on wet or damp surfaces.
- **CRACK-BRIDGING:**
Up to: 1.0mm width without reinforcement. Up to: 3.0mm width polyester / polyglass fiber reinforcement.
- **NON-TOXIC:**
SMARTFLEX is a water-based product which is odorless & non-toxic. It is most suitable for application in confined areas.
- **WATER POTABILITY:**
SMARTFLEX has been tested & certified suitable for use in contact with potable water.
- **GOOD BONDING:**
SMARTFLEX has high substrate adhesion
- **FLEXIBLE:**
SMARTFLEX is flexible & easy to apply in corners and uneven surfaces.

WATERPROOFING BUILD UP SOLUTION



USES



MIXING INSTRUCTIONS



Pour Part A (Polymer Liquid) into an empty & clean container.



Pour Part B (Powder) into container that has Part A (Polymer) within. Ratio 1part of Polymer (A) to 2.3 Parts of Powder (B)

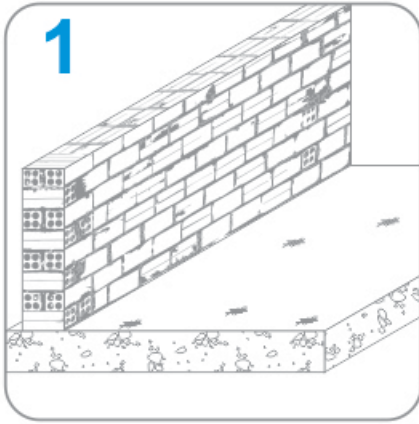


Use electrical mixer or square stick. Mixing for at least 5-10 minutes. Then mix 2nd time prior to application.

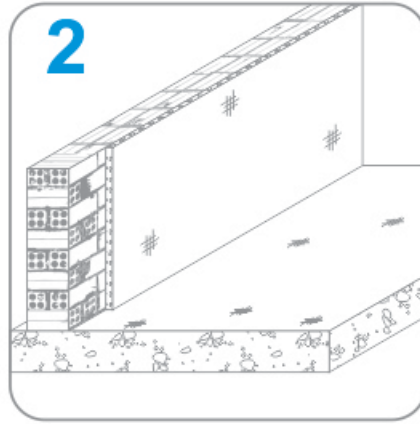
REMARKS:

Mixing ratio 1: 2.33, 1Kg of part A(polymer component) is mixed with 2.33Kg of part B(powder component) it can be diluted 5~10% of clean water by volume for easier application.

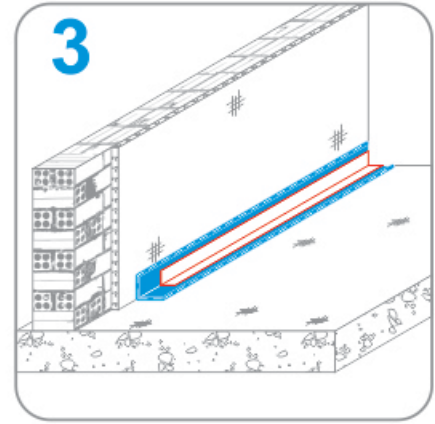
WATERPROOFING APPLICATIONS INSTRUCTIONS



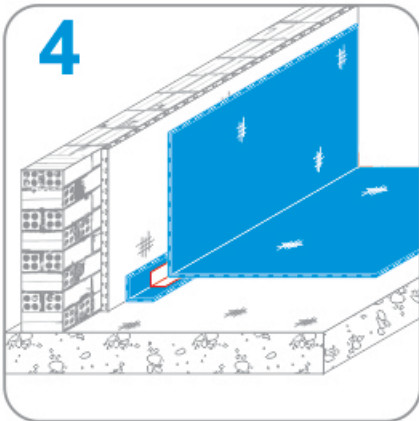
The surface to be waterproofed should be smooth, clean & sloped 1.5 - 2%.



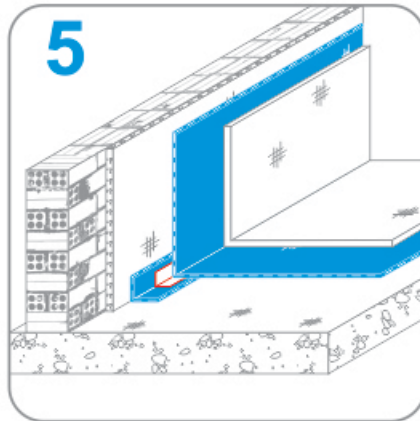
Cement-Sand fillet to be done the at corner, pipe treatment & plastering the upturn & wall.



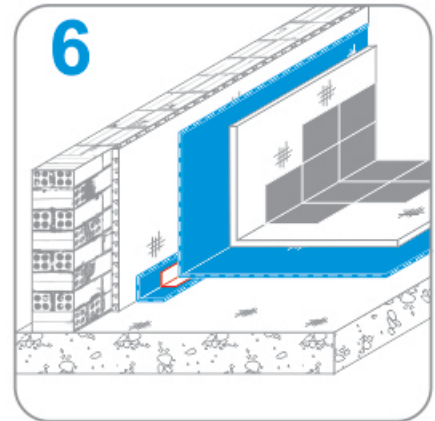
Apply **SMARTFLEX** & Polyester mat reinforcement at the corners, cracks & pipe's collars,...



Apply 2 coats of **SMARTFLEX** on to all floors & walls.



Protected mortar to cover the **SMARTFLEX** waterproofing membrane within 48hrs.



Tile finishing (Options).

REMARKS:

Saturate the substrate to be waterproofed prior to application of **SMARTFLEX**. Normal consumption: @ 1.5kg / m² / 2 coats, thickness 0.8 - 1.0 mm. Depending on the surface conditions, items to be waterproofed, the consumption can be changed. For more detail, please contact your local distributors or manufacturer.

DISCLAIMER

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