

DONCRETE-Superflex +

HIGH QUALITY POLYMER MODIFIED FLEXIBLE CEMENTITIOUS WATERPROOFING MEMBRANE

DONCRETE-Superflex + is a high elastic, waterproofing cement based material. With special waterproofing properties, easy to use by plastering, applying by using a brush and roller or trowel. Can be painted or overlaid. Use with waterproofing for non-toxic water tanks, can be used with drinking water.

DONCRETE-Superflex + is a 2-component cement-based waterproofing material, which is powdered (fine sand, sizing), liquid (modified acrylic polymer) and nontoxic substances, environmentally friendly free Volatile Organic Compound (VOC), excellent waterproofing property no leakage up to 10 m. hydrostatic pressure.

Area Application:-

- Waterproofing hydraulic channels, faces of dams and basins.
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools etc, before laying ceramic tiles.
- Waterproofing plasterboard, render of 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.
- Protection of cementitious renders or concrete with cracks due to shrinkage, minor movement caused by thermal gradients or dynamic stresses due to the passage of vehicles, against infiltration of water and aggressive elements from the atmosphere
- Protection of concrete pillars and beams and road and railway viaducts repaired with products from the Dongrout ranges against the penetration of carbon dioxide.
- Protection of structures with an inadequate layer of concrete over the reinforcement rods against the penetration of aggressive elements.
- Protection of concrete surfaces which may come into contact with sea water, de-icing salts, such as sodium or calcium chloride, and sulphates

ADVANTAGE:-

- High performance thick film can cover cracks up to 2.5 mm wide.
- Excellent mechanical characteristics to the use of fiber glass sheet reinforcement.
- CE-certified product in compliance with EN 1504-2 and EN 14891.
- Excellent elongation (155.5%)
- Fluid consistency for easy application
- Resistant to UV rays
- May also be applied on existing coverings.
- Compatible with ceramic, mosaic and natural stone coverings.

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TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	comp. A	comp. B
Consistency:	Powder	Liquid
Colour:	Grey	White
Bulk density (g/cm ³):	1.4	-
Dry solids content (%):	100	52

APPLICATION DATA OF PRODUCT (at +20°C -50% R.H.)

Colour of mix:	Grey
Mixing ratio:	component A: component B = 1.4 :1
Consistency of mix:	fluid, may be applied by brush
Density of mix (kg/m ³)	1400
Application temperature range:	8 from +8°C to +40°C
Pot life of mix	1 hour

FINAL PERFORMANCE

Tensile Strength	ASTM D 412	
-after 2 week aging at 50 °C		2.63 N/mm.2
-72 hrs at 23°C immerse in 0.5% NaOCl		2.63 N/mm.2
-72 hrs at 23°C immerse in 1.25% NH4OH		2.63 N/mm.2
-72 hrs at 23°C immerse in 3.7% HCl		2.63 N/mm.2
Elongation at Break	ASTM D 412	
-as cast		152.5%
-after 2 week aging at 50 °C		150%
Adhesion in peel on mortar, N/width (25mm)	ASTM C 794	72.9
Crack Bridging	ASTM C 836	
2 mm. width		Passed
1 mm. width after 10 cycles		Passed
Resistance to water penetration	DIN 1048:Pt5:1991	No Water Penetration
Durometer Hardness, shore A	ASTM D2240	93
Chloride Content Not detected – Chloride free	BS EN 480	
D.L < 0.01%) No Corrosion effect		0.007
Water Absorption		< 5%
Dry film Thickness		1000 Microns
Vibration durability test against earthquake	JIS C 60068-2-59	No water leak after all test.
Intensity level of earthquake	JIS C 60068-2-59	Upper 6
Adhesion to Substrate, N/mm ²	ASTM D4541	1.6 N/mm ²
Adhesion to Concrete 7 day N/mm ²	ASTM D4541	1.25 N/mm ²
Immersion in Water Adhesion to Concrete 7 day	ASTM D4541	1.90 N/mm ²

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Method of Application

1. Surface Preparation

- Allow new concrete and masonry substrate to fully cure prior application.
- All surfaces must be free from oil, grease, wax, dirt or any other form of foreign matter which might effect adhesion.
- Spalled Concrete must be sound before applied.
- Substrate should be reach a "Saturated Surface Dry" (SSD) condition (damp, without standing water)

2. Mixing

- Use Portland cement mechanical mixer at slow speed; add product powder part to liquid part in a clean container until a smooth and homogenous slurry mixture is achieved.
- Allow the mixed slurry to stand for 5-10 minutes for releasing air-trapped during the mixing prior to application.
- Mixing material must be use within recommend pot life.

3. Application

- **DONCRETE- Superflex+** slurry can be applied by brush or roller. **DO NOT** dilute with water.
- Recommend Coverage rate is approximately 1.1 kg./m/coat for 1 mm. (Minimum 2 coat.).
- Allow the slurry to cure for at least 15-30 min. before applying second coat. Do not leave the first coat to dry longer than 8 hours.
- For tile adhesive application on surface allow surface to cure for 3 days prior.
- If first coat was cure over 8 hours, fix surface by applying 2 to 3 coats of **DONCRETE-Superflex** for desire waterproof surface thickness.or fix by applying **DONCRETE-TA range of products** tile adhesive to act as top coat protection for **DONCRETE- Superflex+**

4. Curing

- For maximum protection, allow 12 to 24 hours curing time after second coat.
- Leave **DONCRETE- Superflex+** at least 7 days to cure before filling or sealing water to test leaks.

CONSUMPTION

Theoretical consumption without allowance for loss

Rate of uses		
	Kg/m ²	M ² / set (48 kg)
	Standard	
1 coats	1.10	43
2 coats	1.10	43
Total 2 coats	2.20	21

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*Depend on surface condition

Thickness

	Thickness (micron)		
	Standard	At Least	At Most
1 coats	425	350	500
2 coat	425	350	500
Total 2 coats	850	700	1000

Note- The consumption figures indicated are for a seamless film on a flat surface and are higher if applied on uneven substrates.

MIXING RATIO

Component A: Component B (1.4:1)

PACKAGING

Units of 24 kg
component B: 10 kg drum.
component A: 14 kg bag.

&

48 Kg
component B: 20 kg drum
component A: 28 kg bag.

STORAGE

DONCRETE-Superflex + component A may be stored for up to 12 months when contained in its original sealed packaging in a dry place.

DONCRETE-Superflex + component B may be stored for up to 24 months. Store in a dry place and at a temperature of at least +5°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.donbuildingchemicals.com

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website

www.donbuildingchemicals.com

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