DONCRETE- SUPER FLEX

HIGH PERFORMANCE POLYMER MODIFIED TWO PACK COATING

DONCRETE – SUPER FLEX is a high performance polymer modified two pack coating system which requires only simple on site mixing to provide a highly effective, hard wearing, waterproof membrane.

Easy to apply by either brush, roller or trowel, **DONCRETE – SUPER FLEX** will overcoat concrete, masonry and most common construction materials, providing an effective barrier to water, salts and atmospheric gases.

It is a blend of specially selected cements, precisely graded silica, dolomite fillers and chemical admixtures with a liquid component of pure acrylic copolymer and wetting agents.
Conforms to **IS: 13435 Part-3-1992/DIN-1048/BS : 1881 Part – 208/CRD-C-48/DIN – 52617**

USES:-

a. Waterproofing of roofs, plaza and car park decks, sunken slab, all types of water retaining / underground structures.
b. It can be used as a protective UV resistance sleeve coat for costly resin or other vulnerable when exposed waterproofing system.
c. For repair of old existing damaged waterproofing system.
d. Sealing fine hairline cracks in concrete structures.

ADVANTAGE:-

I. 2 mm thick film has a crack bridging capacity of > 2 mm.
II. Two pack and easy to apply by brush.
III. Highly elastomeric properties.
IV. Non-toxic & safe.
V. Resistance to oil, diluted acid and diluted alkali.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	comp. A	**comp. B**
Consistency:	Powder	Liquid
Colour:	Grey	White
Bulk density (g/cm^3):	1.6	-
Density (g/cm^3):	-	1.0
Dry solids content (%):	100	52

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

Colour of mix:	Grey
Mixing ratio:	component A: component B = 2:1
Consistency of mix:	fluid, may be applied by brush
Density of mix (kg/m)	1600
Application temperature range:	8from +8°C to +40°C
Pot life of mix	1 hour

FINAL PERFORMANCE (THICKNESS 2.0 mm)

Performance characterktle	Test method	Performance figures
Adhesion to concrete - after 28 days at +20°C and 50% R.H. (N/mm²):	EN 1542	1.3
Thermal compatibility to freeze/thaw cycles with de-icing salts, measured as Adhesion (N/mm²):	EN 1542	0.9
Adhesion to concrete - after 7 days at +20°C and 50% R.H. + 21 days in water (N/mm²):	EN 1542	0.9
Elasticity expressed as elongation after 28 days at +20°C and 50% R.H. (%):	DIN 53504 modified	155.5
Static crack-bridging at +20°C expressed as maximum crack width - after 28 days at +20°C and 50% R.H. (mm):	EN 1062-7	class A5 (+20°C) (> 2.5 mm)
Dynamic crack-bridging at +20°C expressed as resistance to cracking cycles:	EN 1062-7	class B4.2 (+20°C) No failure of the test piece after 20,000 crack cycles with movement of crack from 0.20 to 0.50 mm
Permeability to water vapour - equivalent air thickness SD (m):	EN ISO 7783-1	SD = 3.6 / μ = 1800
Impermeability to water, expressed as capillary absorption (kg/m²-h0.5):	EN 1062-3	< 0.05
Permeability to carbon dioxide (CO2) - diffusion in equivalent air layer thickness SDCO2 (m):	EN 1062-6	> 50
Reaction to fire:	EN 13501-1	E

		Performance figures for **DONCRETE-Superflex**
Impermeability to water under pressure (1.5 bar for 7 days of positive lift):	EN 14891-A.7	no penetration
Crack-bridging ability at +23°C (mm):	EN 14891-A.8.2	2.8
Crack-bridging ability at -5°C (mm):	EN 14891-A.8.3	1.5
Initial adhesion strength (N/mm²):	EN 14891-A.6.2	1.1
Adhesion after immersion in water	ASTM-D-4541	1.90

HIGH PERFORMANCE POLYMER MODIFIED CEMENTIOUS COATING
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(N/mm^2):		
Adhesion after application of heat source (N/mm^2):	EN 14891-A.6.5	1.3
Adhesion after freeze-thaw cycles (N/mm^2):	EN 14891-A.6.6	1.2

APPLICATION:
Surface should be free of oil, grease and loose particles. Cracks should be repaired with **DONCRETE – SUPER FLEX** In case of metal surface remove rust and contamination for better protection.
DONCRETE – SUPER FLEX 2:1 (Powder : Liquid) apply by brush, spray or roller. After the primer coat is completely dried apply minimum two coats of **DONCRETE – SUPER FLEX.** It is very important to ensure each coat is totally cured. (I.e. 8 hours at 30^0C) before the next coat is applied. For better result use glass fiber reinforced mat embedded into first coat of **DONCRETE – SUPER FLEX** while still wet including expansion areas and joints with parapet.

Mixing Ratio : 2 Kg powder : 1Kg liquid mixing by spiral paddle attachment on a slow speed drill only 3 to 5 minutes only.

All tools should be cleaned by water immediately after use.

SCREED APLICATION:-
A cover of 20 mm think cement-C. Sand mortar (1:4) admixed with 200 ml. waterproofing chemicals **DONCRETE - RMW** (IS: 2645) or **Doncrete –T** hydrophobic render @10-20 mm thick.

COVERAGE:-
Recommended two coats of **DONCRETE – SUPER FLEX** for better waterproofing at the rates of 2 Kg per/ m^2/mm.(Brush or Roller Application)

PACKING:- Powder – 20 Kg : Liquid – 10 Kg.

STORAGE:-
Store under cover and preferably below 30^0C. Maximum two years in unopened container.

TECHNICAL SERVICE DEPARTMENT:-
Don Building Chemical is pleased to offer full technical support of specific application.

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TECHNICAL COLLABORATION WITH

Don Building Chemicals (India) Pvt. Ltd.
B-111-112, Santosh Complex, Vibhuti Khand,
Gomti Nagar, Lucknow- 226010
E-mail:donbuildingchemicals@yahoo.com
Website: www.donbuildingchemical.com

Doncrete USA Inc.
Governors Hwy 292, PA-8, Oil City
PA-United States- 24601
E-mail: help@doncreteusa.com
Website: www.doncreteusa.com

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