

TECHNICAL DATA SHEET

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SR FLEX XL

Acrylic Modified Cementitious Waterproofing Coating

PRODUCT DESCRIPTION

SR Flex XL is a premium grade two-part acrylic modified cementitious waterproofing coating with excellent flexibility and adhesion for protecting concrete structures against ingress of water, vapor, ingress of chloride ions. SR Flex XL provides an effective barrier to waterborne salts and atmospheric gases. SR Flex XL cures to form a tough yet flexible coating having excellent waterproofing properties.

FEATURES & BENEFITS

- 1:1 mixing ratio
- Excellent adhesion
- Easy to apply
- Flexible
- UV Stable
- Non - toxic and can be used for potable water tanks
- Breathable- allows water vapor to escape from structure
- Can be applied on damp substrate

RECOMMENDED APPLICATION

Used as a waterproofing and protective coating for the following structures:

- Roof waterproofing
- Wet area waterproofing – Bathroom, kitchen, balcony
- Moisture barrier for marble/ granite (back side)
- Waterproofing of water tank
- Foundation protection
- For filling pin holes in concrete structures.
- Moisture barrier for facades and inner leaf of cavity walls.

TECHNICAL PARAMETERS

Physical Properties	Test Standard	Result
Pot life [hours]	-	6
Mixed Density, [g/L]	ASTM D 1475	1.2
Hydrostatic pressure @5 (50m)	BS EN 12390 Part 8	No Leakage
Toxicity	BS 6920	Pass
Reaction to fire	ASTM E84	Class A
Abrasion resistance [mg]	ASTM D 4060	<75
Full cure time [days]	-	7
Tensile strength, [N/mm ²]	ASTM D 412	>1
Elongation, [%]	ASTM D 412	>90
Adhesion strength, [N/mm ²]	ASTM D 4541	>2
VOC [g/l]	ASTM D 3960/D 2369	<50
Drying time [hours]	-	6-8
Crack bridging ability, [mm]	ASTM C 836	>2
Water vapor transmission [g/m ² /day]	ASTM E96	22.8
Application temperature, [°C]	-	5 to 40
Service temperature, [°C]	-	5 to 70

#All values are subject to 5-10% tolerance.

SURFACE PREPARATION

The surface must be structurally sound and free of oil, grease, dust, and other contaminants which will affect the adhesion. Concrete surface should be cleaned using high pressure water jet. Minor honeycombs and potholes up to 5mm shall be repaired with SR Flex XL mixed with reduced liquid to powder ratio to get a mortar consistency. The surface should be pre saturate with water prior to the application. However, any standing water shall be removed.

MIXING

SR flex XL is supplied in two pre – measured parts which just requires on site mixing. Do not mix more material than that can be used within the pot life of the product. Pour 75% of the liquid part into a metal or plastic drum of at least 20 L volume. Gradually add the powder to liquid part whilst mixing the contents using a slow speed double shaft mixer/ drill (300 to 400 rpm) fitted to a proprietary paddle mixer till a homogeneous, lump free and creamy consistency is achieved, and then add balance 25% and mix it for another minute. Do not add water to dilute the material.

APPLICATION INSTRUCTIONS

Application procedure may be vary slightly depending upon the site conditions. The general recommendation is to apply SR Flex XL in 2-3 coats to provide the thickness of 2 mm.

Critical areas like pipe penetrations and corners to be treated first. Apply one coat of SR Flex XL with a brush on all corners and around the pipe penetrations extending up to 200mm on either side and reinforce with a fiber mesh/ geo textile. Apply a second coat over it and allow to dry. Then apply first coat of SR Flex XL by brush or roller over the entire area at 0.75 L/m². A second coat to be applied at right angles to the first coat at 0.75 L/m² after the first coat is dry. The coating is to be left to cure for a minimum of 3 days before flood test in wet areas and 7 days for swimming pool.

COVERAGE

0.75 L/ m² per coat (minimum 2 coats recommended).

LIMITATIONS

- SR flex XL should not be applied if the air temperature, substrate temperature or material temperature is greater than 45°C. This may significantly reduce the open time of coating,
- Do not proceed with application on external areas when rainfall is imminent.
- Do not apply over light weight concrete or foam concrete.
- SR flex XL should not be applied on external surface where aesthetic appearance is critical as the difference in drying rate may cause slight color differences.

STORAGE

Store away from direct sunlight and extreme temperatures. Liquid should not be allowed to freeze. The shelf life is up to 12 months when stored as per recommendations and in unopened conditions.

PACKAGING

20 L Kit & 10 L Kit (mixed volume).

COLOR

Grey / Off-white

HEALTH & SAFETY

As will all construction chemical products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.