

TECHNICAL DATA SHEET

January 2026 Rev: 03

SR FLEX

Acrylic Modified Cementitious Waterproofing Coating

PRODUCT DESCRIPTION

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

FEATURES & BENEFITS

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

RECOMMENDED APPLICATION

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

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

TECHNICAL PARAMETERS

Physical Properties	Test Standard	Result
Color	-	Grey/ Off-white
Mixed Density, [g/L]	ASTM D 1475	1.8
Pot life [minutes]	-	45
Hydrostatic pressure @5 [50m]	BS EN 12390 Part 8	No Leakage
Reaction to fire	ASTM E84	Class A
Abrasion resistance [mg]	ASTM D 4060	<75
Full cure time [days]	-	3
Tensile strength, [N/mm ²]	ASTM D 412	>7
Elongation, [%]	ASTM D 412	>75
Adhesion strength, [N/mm ²]	ASTM D 4541	>1.5
VOC [g/l]	ASTM D 3960/D 2369	<50
Drying time [hours]	-	6-8
Crack bridging ability, [mm]	ASTM C 836	>1.5
Tear strength [N/mm]	ASTM D 624	>6
Toxicity	BS 6920-1	Pass
Application temperature, [°C]	-	5 to 40
Service temperature, [°C]	-	5 to 70

#All values are subject to 5-10% tolerance

SURFACE

The surface must be structurally sound and free of oil, grease, dust, and other

PREPARATION

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 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 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 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 (300-400 rpm) fitted to a proprietary paddle mixer till a homogeneous, lump free and creamy consistency is achieved. 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 in two coats to provide the dry film thickness of 2 mm. Critical areas like pipe penetrations and corners to be treated first. Apply one coat of SR Flex with a brush on all corners and around the pipe penetrations extending up to 200mm on either side and reinforce with a fiber mesh/ geotextile. Apply a second coat over it and allow to dry. Then apply first coat of SR Flex by brush or roller over the entire area at 1.6 kg/m². A second coat to be applied at right angles to the first coat at 1.6 kg/m² after the first coat is dry. The coating is to be left to cure for a minimum of 72 hours before flood test.

COVERAGE

1.6 Kg/ m² per coat for 1mm thickness (2 coats recommended).

LIMITATIONS

- SR flex 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 should not be applied on external surface where aesthetic appearance is critical as the difference in drying rate may cause slight color differences.

PACKAGING

20 kg Kit.

COLOR

Grey /Off-white.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should 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, call medical assistance immediately.

Disclaimer:

All technical data mentioned in this product data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that because of specific local regulations, the performance of this product may vary from country to country. Please consult the local product data sheet for the exact description of the application fields. The information on this datasheet is subject to change without notice and should not be used for writing specifications. For more information on specific applications, please contact Smart Insulation Finishing System LLC. The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience as materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this data sheet or any verbal advice given unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet supersedes all earlier editions relevant to this product. SIFS reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned. Copies will be supplied on request.

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