

SR COAT PU270

Single-Component Elastomeric Polyurethane Coating

PRODUCT DESCRIPTION

SR Coat PU270 is a high-solids, VOC-compliant, modified polyurethane waterproofing membrane. It is a one-part moisture curing elastomer available in two viscosities (Normal & Fast setting) that are suitable for applications to horizontal & vertical.

PRODUCT FEATURES

- Simple application (roller or airless spray).
- Based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal and natural element resistance properties.
- When applied, forms seamless membrane without joints.
- Resistant to stagnating water.
- Resistant to frost.
- Crack-bridging.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Provides excellent adhesion to almost any type of surface.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.

RECOMMENDED APPLICATION

- Roofs, terraces, and balconies
- Foot bridges and walkways
- Wet areas, water features like fountains
- Swimming pools
- Water reservoirs
- Metal profile sheets
- Retaining walls
- Lift pits and buried concrete structures
- Gypsum and cement boards

TECHNICAL DATA

Physical Properties	Test Method	Results
Ultimate elongation [%]	ASTM D 412	>400
Ultimate tensile strength [N/mm ²]	ASTM D 412	>2.75
Tensile at 100% elongation [N/mm ²]	ASTM D 412	3.1
Adhesion in peel after water Immersion [KN/m] (unprimed)	ASTM C 836	>3.2
Tear resistance [KN/m]	ASTM D 624	9.7
Adhesion to substrate [N/mm ²]	ASTM D 4541	>3
Shore A hardness	ASTM D 2240	40

Shore 00 hardness	ASTM C 836	>86
Water vapor transmission, (average) [g/m ² /day]	ASTM E96/ E96M	35
Total water absorption, (average) [%]	ASTM D 570	0.98
Water tightness	BS EN 1928	No dampness at underside of substrate
Crack bridging ability [mm]	ASTM C1305	>3.2
Extensibility After Heat Aging (maximum crack bridging: 6.4mm)	ASTM C 836	Passed
Low Temperature Elongation at -29°C [%]	ASTM D 412-80	>300
Service Temperature[°C] (continuous ambient)	ASTM D 412-80	-40 to +66

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

MIXING

Use a low speed (300 rpm) mixer. May optionally be thinned with 5-10% solvent. For application by spraying (airless) thin with 10%.

Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat. In tropical climatic conditions, the product must be stored in an air-conditioned environment and protected from high humidity. The shelf life of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

As with all construction chemical products caution should always be exercised whilst usage. Protective clothing such as gloves and goggles should be worn. Treat any splashes on 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. Ensure that the container is available for medical attendants to examine any relevant instructions and contents details.

APPLICATION

Can be applied on:

Apply the material with roller or brush in two, at least, coats. Leave 6-24 hours between coats. If more time passes (for example more than 4 days) or if you are unsure of the interlayer adhesion, please contact our technical department.

Concrete/steel reinforced concrete or otherwise, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, and galvanized steel. For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- Minimum strength: C20/25
- Substrate humidity: W5%
- Temperature: 5-35°C
- Relative humidity: < 85%

CONSUMPTION

First coat: 0.75 - 0.9 kg/m²

Second coat: 0.75 - 0.9 kg/m²

Minimum total consumption: 1.5 - 1.8 kg/m²

Clean the surface using a high-pressure washer, if possible, allow to dry. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mold release agents, cured membranes must be removed. Fill surface irregularities with appropriate products.

PACKING

20 Kg pail (2 bags of 10 Kg each).

COLOUR

Grey, Black.

STORAGE & SHELF LIFE

Store off the ground in un-opened packs in a dry store, under cover between 10°C and 30°C out of direct sunlight. Protect from frost. 12 months from date of production.

HEALTH & SAFETY

SR Coat PU270 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet. PROFESSIONAL USE ONLY.

LIMITATIONS

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >90% or if the surface temperature is <3oC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <5oC during the application or within the curing period. The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days. The manufacture of SR Coat PU270 is a batch process and despite close manufacturing tolerances, color variation may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the color cannot be directly compared. Touching up should only be attempted using product from the same batch using the same application methods. Product should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the floor or surface.

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.

Manufactured by:

Smart Insulation Finishing Systems LLC

ISO 9001: 2015/ ISO 14001:2015 / ISO 45001:2018 Certified

Company

