



PC-Sealcoat® SR

Solar heat Reflecting elastomeric waterproof hybrid resin

PC-Sealcoat® SR is an eco-friendly, high-build acrylic polymer coating for roofs and exterior walls. It reflects over 90% of solar radiation using premium titanium oxide pigment and incorporates materials like hollow microbeads and carbon nanotubes for thermal insulation and electromagnetic shielding. This innovative cooling paint combines reflection, radiation, and heat insulation properties, significantly reducing surface temperatures by over 20 °C, equivalent to 10mm thick polystyrene foam with an R value of 20.

AREA OF APPLICATION

PC-Sealcoat® SR offers an efficient solution for enhancing heat insulation and waterproofing for flat or sloped concrete and metal roofs, terraces, and walls in a range of residential, commercial, and industrial buildings.

SURFACE PREPARATION

To ensure the proper application and effectiveness of **PC-Sealcoat® SR**, it's critical to prepare all surfaces adequately beforehand. The surface must be free of any loose particles, foreign materials, or contaminants that could impact the bond between the original substrate and the **PC-Sealcoat® SR** system. This can be achieved through various approved methods such as scarifying, grinding, water blasting, sandblasting, or acid washing. Additionally, any depressions or honeycomb-like patterns present on the surface should be rectified before application by utilizing repairing mortar and allowing it to set for at least 24 hours before applying **PC-Sealcoat® SR**.



CRACK TREATMENT

In the event of any cracks measuring up to 2 mm, utilize a vacuum cleaner to ensure the area is free of debris. Apply **PC-Crack Seal® Paste** to the exposed cracks, followed by a coating of **PC-Crack Seal® Paste** along the crack line. Allow the area to dry overnight.

USE OF PRIMER

PC-Sealcoat® SR establishes a robust bond with various building materials, including cement concrete, mortar, bricks, wood, and metal. To enhance the performance of the final coating system, it is advisable to utilize **PC-Prime® AC** as a primer, particularly for exterior walls. The use of a primer on roofs is optional.

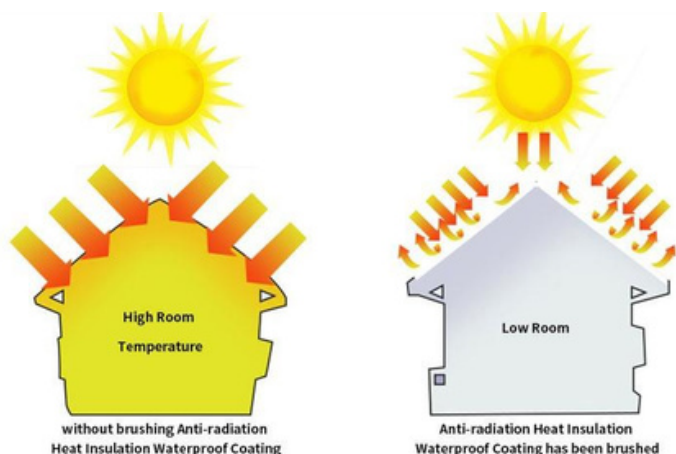
For optimal results, ensure that the primer is well-stirred and applied to a dry surface using a soft nylon brush or roller. Typically, a single coat suffices; however, if the surface is exceptionally porous, two coats of primer are recommended. It is advisable to allow a time gap of 2-3 hours between the application of the two coats.

ADVANTAGES

- Easy application can be applied by brush, roller and spray at the site.
- Acrylic polymer in nature up to 2mm crack bridging capacity.
- UV Resistance- does not turn yellow in sun ray exposure.
- Excellent resistance to carbon dioxide, acid rain, and alkali solutions.
- Reduces cooling and heating demand.
- Save energy and utility costs by maintaining the temperature inside the room.
- Excellent resistance to dirt pick up.
- No VOC (Volatile Organic Compound).
- Excellent adhesion with most of building materials including concrete, metal and wood.

TECHNICAL DATA

Physical Properties	Test Method	Typical Value
Appearance of dry film	--	White, Gray
Specific Gravity	--	1.3±0.1
Drying time at 30°C, RH 65%	(SS 374)	12 hours
Solid content, % (W/W)	--	>60
Elongation at 14 days	(ASTM D 412)	275 (minimum)
Solar Direct Reflectance	(ASTM E 903)	>0.75
Solar Reflectance Index (SRI)	(ASTM E 903)	>91
Tensile strength at 14 days, MPa	(ASTM D 412)	>2
Hardness Shore	(ASTM D2240)	>40
Pull off Adhesion	(ASTM D 541)	>1.5 (Concrete failure)
Coverage (Theoretical)	--	4-6m ² /kg/coat
Emissivity ASTM E 408	(ASTM E 408)	>0.9
Recommended film thickness /cote(DFT)		250-500 microns
QUV Resistance, 1000 hrs	ASTM G 154	No crack, No color change



MIXING AND APPLICATIONS

After applying the primer coat, allow it to reach a touch-dry state for approximately 2-3 hours. Next, stir **PC-Sealcoat® SR** to achieve a smooth and homogeneous consistency, and apply it horizontally with a soft nylon brush, roller, or squeeze it to a thickness of 125-150 microns in a single coat. Allow the applied coat to dry for approximately 4-5 hours. When the first coat is dry enough, you can apply the second coat vertically. Typically, two coats are sufficient for general application, providing a thickness of 250-500 microns DFT. However, for severe conditions, it's advisable to apply three or more coats to achieve desired results.

IMPORTANT CONSIDERATIONS

- To prevent punctures, avoid dragging reinforcement rods and other sharp material over the **PC-Sealcoat® SR**. Additionally, always use **PC-Sealcoat® SR** without diluting it.
- When applying the coating, refrain from exceeding a thickness of 200 microns at once. For thicker coatings, apply multiple coats.
- Allow for a minimum of 6-8 hours after the final coating application before any rain exposure.
- After the final coating application, conduct a 24-hour pond test after 72 hours.



PACKAGING

PC-Sealcoat® SR is available in 20KG pails and **PC-Prime® AC** are 20 KG pails .

STORAGE AND SHELF LIFE

Store at a temperature between 5°C and 50°C in a tightly sealed container. Shelf life is a minimum of 18 months in a good storage protected from direct sunlight and frost.

HEALTH AND SAFETY

Wear hand gloves, safety shoes and safety goggles while using and handling the product. In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately



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TECHNICAL DATA SHEET UPDATED IN
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TDS/PC-SEALCOAT® SR/26



All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC 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. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our [website www.pc-wc.com](http://www.pc-wc.com)