TECHNICAL DATA SHEET

SPECTRACOOL - Silicone Roof Membrane



Description

CH PRO Spectracool is a single-component, solvent-free, high-solids, 100% silicone roof coating. It prevents and stops leaks and provides a long-lasting seal that extends the service life of concrete roofs and other surfaces. It forms an elastic, monolithic, waterproof membrane that bonds firmly to the substrate, does not tear or peel, and accommodates the full movement of concrete joints and cracks. Its white color lowers the building's interior temperature, reflects sunlight and dissipates heat, reducing energy consumption. It has reflective and insulating properties.

- Patented hollow nano-glass microspheres for an insulating effect.
- Calcium carbonate ($CaCO_3$) for very high reflectance and cooling.
- Patented Titanit additives for improved self-cleaning and air-purifying properties through photocatalysis.
- Converts nitrogen oxides in the ambient air into nitrate ions using sunlight.

Uses

Proven adhesion properties exceeding the requirements of ASTM D6694:

- Concrete roofs
- Previously coated roofs
- Aged asphalt roofs, including built-up roofs (BUR) and modified bitumen (MB)
- Aged single-ply roofs such as EPDM, TPO, PVC and Hypalon®
- Spray polyurethane foam (SPF) roofs and metal roofs
- RV, trailer and mobile home roofs.
- Not recommended for use on tile roofs of any kind.

Product Features

- Long-lasting waterproof protection
- Resistant to ponding water on roofs
- Wide range of applications
- Excellent adhesion to various substrates
- Lasting elasticity
- UV resistant
- High temperature resistance
- High solar reflectance
- Insulating properties
- High weather resistance
- Improved self-cleaning effect and air-purifying properties

Application Instructions

Before coating, thoroughly clean the surface with a pressure washer. The surface must be dry and free of grease, dust and rust. Remove any loose or peeling old paint. On metal roofs, remove rust spots with a wire brush and treat them with a rust converter. In some cases, an anti-corrosion primer may be required. Make sure the applied coat is fully cured before proceeding to the next step.

Before applying the coating, test a small area of the existing surface to make sure there is no bleed-through and that adhesion is adequate. Stir the product thoroughly before use until homogeneous. Start by cutting in edges and hard-to-reach areas with a brush or roller. Then apply the first coat using an airless sprayer, paint roller or brush. Do not apply the coating too thickly, to avoid runs. Apply an even coat and make sure neither excessive heat nor rain affects the surface during drying. Wait until the coating has cured enough to walk on, then repeat the process. Drying time is typically about 1 hour at a surface temperature of 38 °C. The goal is a uniform coating thickness of at least 0.6 mm across the entire surface. Use our online paint calculator to determine the right amount of coating for your area.

3 m^2/kg Coverage

Color White

Technical Data

Solar reflectance	⩾ 0.65
Near-infrared reflectance	⩾ 0.80
Hemispherical reflectance	⩾ 0.85
Change in solar reflectance after soiling	⩽ 20%
Change in solar reflectance after artificial weathering	⩽ 5%
L* value	⩾ 80
Solids content	60%
Base	Water-based silicone resin
VOC	0 g/L
Number of coats	Very high coverage, only 2 coats required.
Net content	20 kg

Hazard Warning

Avoid direct contact with skin and eyes. In case of contact, rinse the affected area with plenty of water and seek medical attention. Wear protective clothing, eye protection and a respirator during application.

Contact

Contact form

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