

PES-CHEM 554 RB Membrane

PES-Chem 554 RB Membrane is single pack solvents based high build rubberised acrylic water proof coating. The product is supplied ready to use and is ideal for waterproofing flat steel roofs, steel and concrete structures, and external tank surfaces. The product has high build properties allowing it to be applied up to 40 MILS (1mm) thickness in one coat. Once applied the product is shower resistant in 15 minutes and will offer long term UV stable corrosion protection.

Typical applications

Flat steel roofs, external tank surfaces, structural steel, concrete tanks and structures.

Surface Preparation

Structural Steel

For optimum results all steel surfaces should be abrasive blast cleaned to Nace standard 2, SSPC- 10 Near-White Metal (SA2.5, 75 micron profile) with a 3-4 mil angular anchor profile. However the system is tolerant of less than ideal surface preparation can be applied to mechanically abraded or hydro blasted surfaces. Minimum pressure for hydro blasting is 5000 psi. Mechanical abrasion must be with an MBX bristle Blaster. Please refer to the PES Technical Center for further information. The steel surface must be primed using PES-Chem 506 Aluprime prior to application.

Tank roofs and surfaces

All steel surfaces must be cleaned using a minimum 5000 psi hydro blasting system. All loose coatings and corrosion must be cleared from the surface. Any sharp edges, corroded welded seams must be mechanically abraded to ensure best performance results. The steel surface must be primed using PES-Chem 506 Aluprime prior to application.

Concrete Structures

The surface of the concrete must be sound and be free of movement or subsidence. All surfaces must be lightly abrasive blast cleaned or abraded using a diamond grinder. All loose material must be removed. Any existing coatings must be abraded and taken back to a sound surface. All surfaces must be primed using either PES-Chem 503 SPEP Primer or PES-Chem 505 Damp Seal

Application temperature should be between 41°F-86°F (5°C-30°C.)

Mixing and Application

Please stir the container prior to applying the product to any prepared surfaces.

This product can be applied by brush, roller, squeegee or standard airless spray equipment.

This product can be applied either as single coat application or in a two coat application.

Two coat application

The material will be applied at a minimum WFT of 20 Mils (500 microns) per coat. Practical coverage will be 21 SQ.FT (2m²) per liter.

Single coat application

The material can be applied in a single coat at 40 Mils. (1mm). Practical coverage will be 10.5 SQ.FT (1m²) per liter.

Spray details

We recommend application of this product using a GRACO Gmax 11 5900 HD airless sprayer . Application pressure of 2000-2500psi with a tip size of 28-32 thou using a 3/8" inch hose up to 100FT. (30 meters) in length. PLEASE NOTE SPRAY APPLICATIONS ARE 2 X 20 Mils. Per 10.5 SQ.FT. (2 X 500 MICRONS PER M²).

Technical Data Sheet



Cure Times

At 68°F (20°C) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Shower Resistant	15 minutes
Touch dry	1-2 hours
Minimum Over coating	2-4 hours
Maximum Over coating	Indefinite

Storage Life

2 years if unopened and stored in normal dry conditions 59-86°F (15-30°C)

Health and Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read and fully understood the detailed Material Safety Data Sheet.

Legal Notice

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. PES accepts no liability arising out of the use of this information or the product described herein.