

RESICHEM 553 FR Membrane

Resichem 553 FR Membrane is a single pack water based fire retardant acrylic coating. The product has been designed to encapsulate thermal insulation materials against damage, loss of insulation performance and prevent under insulation corrosion.

Typical applications

Protection and encapsulation of foam, calcium silicate, glass fibre and mineral wool surfaces.

Surface Preparation

All surfaces to be treated should be free of contamination and any loose material removed by vacuuming. Damaged insulation should be made good. Powdery and porous substrates should be dampened with clean water prior to application of Resichem 553 FR Membrane.

Steel or other non-porous substrates should be conditioned with Resichem 506 Aluprime before coating.

Apply a single coat at 100 microns (4mil) dry film thickness.

Leave for a minimum of 6 hours at 30°C (86°F) before over-coating.

Mixing and Application

Resichem 553 FR Membrane is supplied ready for use but on friable substrates a conditioning coat should first be applied where the material has been diluted with an equal volume of clean water. At 20°C (68°F) over-coating can be carried out between 2 hour and 3 days.

Resichem 553 FR Membrane can be applied by brush, roller or spray. Apply the first coat at 400 microns (16mil) to give a dry film thickness of 250 microns (10mil) and the second coat at 250 microns (10mil) to give a dry film thickness of 150 microns (6mil) . At 20°C (68°F) allow 12 hours between coats.

Typical coverage rates for different insulating materials are as follows.

| Substrate | First Layer per Litre | Second Layer per Litre |
|------------------------------|----------------------------|----------------------------|
| New Calcium Silicate | 2.3 sq metres (24.5sq ft) | 4.0 sq metres (43sq ft) |
| Old Calcium Silicate | 2.0 sq metres (21.5sq ft) | 4.0 sq metres (43sq ft) |
| New Glass fibre/mineral wool | 1.6 sq metres (17.25sq ft) | 3.4 sq metres (36.75sq ft) |
| Old Glass fibre/mineral wool | 1.1 sq metres (12sq ft) | 3.2 sq metres (34.5sq ft) |
| New foam sections | 2.2 sq metres (23.75sq ft) | 4.0 sq metres (43sq ft) |
| Old foam sections | 1.9 sq metres (20.5sq ft) | 4.0 sq metres (43sq ft) |

Where physical strength is required the use of an open mesh glass fibre sheet in the first layer is recommended.

The material can also be applied by airless spray using a tip pressure of 2000psi and a spray tip size of 0.018-0.020inch.

Cure Times

The drying time of the material will be dependent on temperature, humidity and air movement. Where chemical contact is envisaged, however, this should be avoided for 7 days.

Storage Life

A minimum of 36 months if unopened and stored in normal dry conditions 15-30°C (60°F-86°F)

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. Resimac accepts no liability arising out of the use of this information or the product described herein.