RESICHEM 560 Thermal Barrier XF – high build anticondensation coating

Resichem 560 Thermal Barrier XF is a high build solvent-free low emissivity coating designed to eradicate condensation build up on cold water lines.

- Solvent free epoxy with high build capability
- Apply to damp surfaces
- Cures at low temperatures (5°C/ 41°F).

Typical applications

External pipe surfaces Tank externals Process vessels Cold water lines

Surface Preparation

Metallic Substrates – Mechanical abrasion

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be mechanically abraded using handheld grinders to ***ISO 8501/4 ST3 (SSPC SP3 ST3)***.
3. Once abraded wipe the surface clean.

Mixing

Prior to mixing please ensure the following:

1. The base component is at a temperature between 15-25°C (60-77F°).
2. The ambient & surface temperature is above 5°C (41F°).

Once these 2 checks have been met, please proceed with mixing the product.

1. Transfer the contents of the Activator unit into the Base container.
2. Using an electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole of the material should be used within 30 minutes at 20°C (68°F).

Application

Brush or roller applications

1. Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life).
2. Apply the product to the prepared metallic surface at a wet film thickness of 1-2mm (40-80mil).
3. Leave to cure for approximately 4 hours at 20°C (68F°).
4. Apply a 2nd coat of material at 1-2mm (40-80mil) wet film thickness.
5. Repeat this process until the recommended film thickness is achieved.
6. Please see the film thickness guide below for information on the required thickness of product needed at various Ambient temperatures & humidity.

Air Temp ˚ C	50% Humidity	55%	60%	65%	70 %	75%	80%	85%	90%	95%
22.5	3MM	4MM	4MM	5MM	5MM	6MM	6MM	6MM	7MM	7MM
25.0	4MM	5MM	5MM	6MM	6MM	7MM	7MM	7MM	8MM	8MM
27.5	5MM	6MM	6MM	7MM	7MM	8MM	8MM	8MM	9MM	9MM
30.0	6MM	6MM	7MM	7MM	8MM	9MM	9MM	9MM	10MM	10MM
32.5	7MM	7MM	8MM	9MM	9MM	9MM	10MM	10MM	11MM	11MM
35.0	8MM	8MM	9MM	9MM	10MM	10MM	11MM	11MM	12MM	12MM
37.5	9MM	9MM	10MM	10MM	11MM	11MM	12MM	12MM	13MM	13MM
40.0	10MM	10MM	11MM	11MM	12MM	12MM	13MM	13MM	14MM	14MM
42.5	10MM	11MM	12MM	12MM	13MM	13MM	14MM	14MM	15MM	15MM
45.0	11MM	12MM	13MM	13MM	14MM	14MM	15MM	15MM	16MM	16MM

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Coverage Rates

1ltr (0.25 US gallon) of fully mixed product will give the following coverage rates –

1m² at 1mm	10.75ft² at 40mil
0.5m² at 2mm	5.3ft² at 80mil

4ltrs (1.1 US gallon) of fully mixed product will give the following coverage rates –

4m² at 1mm	43ft² at 40mil
2m² at 2mm	21.5ft² at 80mil

13ltrs (3.5 US gallon) of fully mixed product will give the following coverage rates –

13m² at 1mm	139.75ft² at 40mil
6.5m² at 2mm	69.8ft² at 80mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Cure Times

At 20°C (68°F) 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:

Usable life	30 minutes
Minimum overcoating time	4 hours
Maximum overcoating time	36 hours
Chemical resistance	3 days

Pack Sizes

This product is available in the following pack sizes –
1ltr (0.25 US Gallon), 4ltrs (1.1 US Gallons), 13ltrs (3.5 US Gallons).

Colour

Base component – Grey
Activator component – Amber

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 4 hours at 20°C (68°F).
Maximum - the over-coating time should not exceed 36 hours.
Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

Storage Life

5 years if unopened and store in normal dry conditions (15-30°C/ 60-86F°)

Other Technical Documents

Quick Application Guide	-	Brush or roller applications
Quick Application Guide	-	Spray application
Safety Data Sheets	-	Base & Activator components
Product Specification Sheet	-	Technical Performance Information

Health and Safety

Please ensure good practice is observed at all times. Protective gloves, goggles & a disposable coverall must be worn during the mixing and application of this product. Before mixing and applying the material ensure you have read the fully detailed Safety Data Sheet.

Legal Notice: