resimac Ltd.

Technical Data Sheet

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 (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 60-77F°.
2. The ambient & surface temperature is above 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 68°F.

Application

Brush or roller applications

1. Pour the mixed material into a paint kettle or paint tray (this will maximize the usable life).
2. Apply the product to the prepared metallic surface at a wet film thickness of 40-80mil.
3. Leave to cure for approximately 4 hours at 68F°.
4. Apply a 2nd coat of material at 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 ° F	50% Humidity	55%	60%	65%	70 %	75%	80%	85%	90%	95%
72.5°	120mil	160mil	160mil	200mil	200mil	240mil	240mil	240mil	280mil	280mil
77°	160mil	200mil	200mil	240mil	240mil	280mil	280mil	280mil	320mil	320mil
81°	200mil	240mil	240mil	280mil	280mil	320mil	320mil	320mil	360mil	360mil
86°	240mil	240mil	280mil	280mil	320mil	360mil	360mil	360mil	400mil	400mil
90°	280mil	280mil	320mil	360mil	360mil	360mil	400mil	400mil	440mil	440mil
95°	320mil	320mil	360mil	360mil	400mil	400mil	440mil	440mil	480mil	480mil
99.5°	360mil	360mil	400mil	400mil	440mil	440mil	480mil	480mil	520mil	520mil
104°	400mil	400mil	440mil	440mil	480mil	480mil	520mil	520mil	560mil	560mil
108.5°	400mil	440mil	480mil	480mil	520mil	520mil	560mil	560mil	600mil	600mil
112°F	440mil	480mil	520mil	520mil	560mil	560mil	600mil	600mil	640mil	640mil

Coverage Rates

1ltr (0.25 US gallon) of fully mixed product will give the following coverage rates
10.75ft² at 40mil
5.3ft² at 80mil
4ltrs (1.1 US gallon) of fully mixed product will give the following coverage rates –
43ft² at 40mil
21.5ft² at 80mil
13ltrs (3.5 US gallon) of fully mixed product will give the following coverage rates –
139.75ft² at 40mil
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 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).

Color

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 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 (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:

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