RESICHEM 580 Cast & Seal –
solvent free silicon sealing compound

Resichem 580 is a two component rapid solidifying pourable silicone polymer system that has been designed to create flexible heat resistant seals in situ.

- 250°C temperature resistance once cured
- Fast curing
- Maximum casting thickness 150mm (6”)

Typical applications
Ideal for sealing leaking low pressure steam, vapour or gas 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, the surface must be degreased and cleaned using MEK or similar type materia1.
4. Prime all surfaces with 589 Adhesion Promoter, apply the primer as liberally as possible.

Metallic Substrates – Abrasive blast cleaning

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be abrasive blasted to ***ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)*** minimum blast profile of 75 microns (3mil) using an angular abrasive.
3. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
4. Prime all surfaces with 589 Adhesion Promoter, apply the primer as liberally as possible.

PLEASE NOTE: *For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.*

Existing Concrete

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrasive blast or scarify taking care not to expose the aggregate.
3. Clean all dust and debris from the surface and prime with Resichem 589 Adhesion Promoter.

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 (40F°).
3. The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

Once these 3 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).
4. Please be aware there is no exothermic reaction between the base and activator components.

Application
Brush or roller applications

1. To seal leaking pipes a collar must be manufactured to fit round the entire circumference of the pipe.
2. Ensure the collar is sealed all along the pipe circumference using a flexible sealant.
3. Pour the mixed material into the collar up to a maximum thickness of 150mm (6”).
4. Leave the coating to cure for a minimum 3-4 hours at 20°C (68°F).
5. Once the product has set cut away the sealant around the collar and pipe surface and remove the pipe collar.

Please note: 580 Cast and Seal can be applied to metallic surfaces at temperatures up to 60°C, once cured it will resist a maximum dry temperature of 250°C.

Coverage Rates

4ltrs (1.05 US gallon) of fully mixed product will give the following coverage rates –
1m² at 4mm 10.7ft² at 1/6”

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
Initial Set	3-4 hours
Full cure	12 hours

Pack Sizes

This product is available in the following pack sizes –
4ltrs (1.05 US gallon)

Colour

Base component – Grey
Activator component – Opaque liquid

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 3-4 hours at 20°C (68°F).
Maximum – indefinite

Storage Life

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

Other Technical Documents

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.