

## **RESICHEM 571 Concrete Repair LW – solvent free lightweight epoxy repair mortar**

**Resichem 571 Concrete Repair LW** is a lightweight three-part solvent free epoxy repair mortar designed for use on cementitious surfaces. The lightweight nature of the material makes it ideal for repairs to overhead columns, sills and vertical concrete surfaces.

- Lightweight repair product
- Ideal for overhead and vertical cementitious surfaces
- Capable of being applied to 2" thickness without sagging

### **Typical applications**

Suitable for rebuilding and repairing the following surfaces -  
Overhead Viaducts, Overhead Concrete Balconies, Sills, Walls, and Ceilings

### **Surface Preparation**

The concrete surface must be free of all dust and loose materials.

#### **Clean Concrete**

1. Compressed air can be used to clean the surface and ensure all debris and contaminants have been cleaned from any hairline cracks or deep pitting.
2. A vacuum must be used to ensure the repair area is dust/ debris free.

#### **Coated Concrete**

1. The surface of the concrete will need to be scarified to remove any existing coatings and to ensure the repair material bonds to the surface.
2. Use a handheld mechanical grinder to clean the surface.
3. Once the repair area has been scarified it must be vacuumed and be dust and debris free.

#### **Contaminated Concrete**

1. If the surface of the concrete has been contaminated with oil or industrial chemicals these must be cleaned from the repair surface.
2. If the contamination is superficial the repair area can be cleaned using a handheld mechanical grinder and then vacuumed clean.
3. For deeper ingrained contamination clean the surface of the repair for any oils/chemicals from the substrate is needed.

### **Mixing & Application – Primer**

Prior to mixing please ensure the following:

1. The material components are at a temperature between 60-77°F.
2. The ambient & surface temperature is above 50°F.
3. The ambient & surface temperatures are not less than 6°F above the dew point.

Once these 3 checks have been met, please proceed with mixing the product.

2.5kg (5.5lb) pack of 571 Concrete Repair LW contains the following items –

1 x Primer Base, 1 x Primer Activator

1 x Aggregate Activator, 1 x bag of Aggregate incorporating epoxy resin

1. Take the primer activator component and pour into the primer base component pot and mix together using the spatula provided. Mix the two components until streak free. Usable life is 20 minutes at 68°F.
2. Using a brush or roller apply the mixed primer to the repair surface. Ensure the primer is forced into any small cracks or uneven surfaces.
3. Once all surfaces have been coated with the primer apply the mortar whilst still wet/tacky to the touch. If you wait over 30 minutes you will need to reprime.

### **Mixing & Application – Repair Mortar**

Prior to mixing please ensure the following:

1. The material components are at a temperature between 60-77°F.
2. The ambient & surface temperature is above 50°F.
3. The ambient & surface temperatures are not less than 6°F above the dew point.

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

2.5kg (5.5lb) pack of 571 Concrete Repair LW contains the following items –

1 x Primer Base, 1 x Primer Activator

1 x Aggregate Activator, 1 x bag of Aggregate incorporating epoxy resin

1. Take the aggregate activator component and pour into the plastic unit containing the aggregate. Mix the 2 components together using the spatula provided until streak free. 571 Concrete LW has a usable life of 60 minutes at 68°F.
2. Using a trowel apply the mixed material to the primed repair surface.
3. If needed the repair mortar can be applied in layers approximately 200-400mils per layer, alternatively the product can be applied in single coat up to 2" thickness without sagging.
4. Once the repair area has been filled with 571 Concrete Repair LW, leave to cure for a minimum 8 hours at 68°F.

## Coverage Rates

2.5kg/ 2.5ltrs (1.5 US gallon) of fully mixed product will give the following coverage rates –

5.36ft<sup>2</sup> at 0.19"

2.69ft<sup>2</sup> at 0.27"

1.35ft<sup>2</sup> at 0.8"

*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:

### Primer

Usable life 20 minutes

Touch dry 2 hours

### Mortar

Usable life 60 minutes

Touch dry 8 hours

Full cure 3 days

## Pack Sizes

This product is available in the following pack sizes –

2.5kg/ 2.5ltrs (1.5 US gallon)

## Color

**Primer** Base component – Straw  
Activator component – Amber

**Mortar** Activator component – Amber  
Aggregate – Grey

## Over-coating time

Minimum - the material can be over-coated as soon as it is touch dry, approximately 8 hours at 68°

F. Maximum – 24 hours

## Storage Life

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

## Other Technical Documents

Safety Data Sheets - Base & Activator components Technical  
Product Specification Sheet - 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.



**Unconventional Solutions, Inc.**

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