



## Technical Data Sheet

### PES-CHEM 570 Concrete Patch Repair XF – Solvent-free epoxy repair mortar

**PES-Chem 570 Concrete Patch Repair XF** is a self-priming three-part solvent-free epoxy repair mortar designed for use on cementitious surfaces. The product offers good chemical and abrasion resistance and is ideal for quick repairs to damaged concrete substrates.

- Fast curing – hard dry 2 hours
- Suitable for foot and forklift traffic
- Self-priming
- Ideal for damaged cementitious surfaces

#### Typical applications

Suitable for rebuilding and repairing the following surfaces -

Floors                  Steps                  Ramps                  Coving                  Expansion Joints

#### Surface Preparation

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

#### Emergency Repair

1. The surface of the concrete can be cleaned using a handheld wire brush.
2. The surface must be scarified and as much of the surface contamination cleaned from the substrate.
3. The repair area must then be swept clean using a brush.

Please be aware that this type of surface preparation will affect the operating life of the cured product, to obtain the optimum performance from this material please use one of the following methods:

#### 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. Vacuum the surface so the area is dust and debris-free.

#### Coated Concrete

1. The surface of the concrete will need to be scarified 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/ 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 the use of enzymes on the surface of the repair to clean any oils/ chemicals from the substrate is advised.

#### Mixing

Before mixing, please ensure the following:

1. The base component is at a temperature between 60-77°F.
2. The ambient & surface temperature is above 50°F.

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

1. Take the base and activator components and pour them into the 1-gallon white pail provided. Mix the two components until streak-free using the spatula provided.
2. Once the base and activator mix is streak-free pour half the blended aggregate into the 1-gallon white pail.
3. **For emergency repairs** use the spatula to mix the aggregate and resin system together. After 30 seconds, pour the remaining aggregate into the 1-gallon white pail and finish mixing the product if needed use gloved hands to mix the material.
4. **An alternative method for mixing** is to use an electric mixing paddle, by using this equipment you will mix the product faster and to a better consistency.



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## Application

Trowel applications

1. Once 570 Concrete Patch Repair XF has been mixed thoroughly, pour the contents of the 1-gallon white pail into the repair area.
2. Using a trowel press the material into the concrete surface to ensure all pitting, cracks, etc. have been filled.
3. Once the repair area has been filled with material, spray clean water onto the face of the trowel and skim the surface of the repair. This will give 570 Concrete Patch Repair XF a smooth finish.

## Coverage Rates

1.7 US gallons (5kg/ 2.2ltrs) of fully mixed product will give the following coverage rates–

2.36ft <sup>2</sup> at 0.4"	0.22m <sup>2</sup> at 10mm
1.18ft <sup>2</sup> at 0.8"	0.11m <sup>2</sup> at 20mm
2.36ft <sup>2</sup> at 1.2"	0.07m <sup>2</sup> at 30mm

*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	20 minutes
Hard dry – foot traffic	2 hours
Hard dry – forklift traffic	4 hours

## Pack Sizes

This product is available in the following pack sizes –

1.7 US gallons (5kg/ 2.2ltrs)

## Color

3-component system  
Mixed material – natural

## Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 2 hours at 68°F.

Maximum – 48 hours

## Storage Life

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

## Other Technical Documents

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

## Health and Safety

Please ensure good practice is always observed. 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. PES accepts no liability arising out of the use of this information or the product described herein.