



Damp in walls can only be treated in one of two ways namely, by stopping damp getting into the wall or stopping the damp coming out and pushing off paint or plaster. The Wall RENEW concept includes penetrating chemicals for water repellence, bonding agents with crystalline additives for waterproofing and a waterproof plaster for re-instatement of the damaged area. A decorative cement-based coating for final appearance.

System Description

1. **P3 Coat X** is a combination of selected rapid hardening cement, thixotropes, pozzolans, polymers, dispersing agents and crystalline waterproofing.
2. **CrystalSkim** is a blend of cements, pozzulanic extenders, fine sand, microcrystalline waterproofing additives, wetting aids and powder polymers.

Mixed with water to an easily trowelable consistency, **CrystalSkim** produces a thixotropic mortar which does not slump off vertical or overhead surfaces easily, applied up to approx. 5mm thick.
3. **DecorTex** is the modern multi-purpose long life coating. It weatherproofs and decorates walls and concrete in one easy step. **DecorTex** is a finely divided powder with pozzulanic nano particles and crystalline waterproofing added to high strength cement. **DecorTex** is a one component powder, water is simply added on site to a paintable consistency.
4. **DecorGuard** is ready to use as supplied. It is a dispersion in water of a mixture of silanes and siloxanes, specially

formulated to treat coatings on walls, facades, and dried emulsion paints. The formulation also succeeds with porous brick or concrete but the solvent carried version is better absorbed when treating rising damp.

Preparation

Locate the source of the moisture, water has an amazing ability to find a way in. Remove all damaged paint and plaster down to sound brick or concrete base. Use the appropriate SAMSON product to fill cracks or repair zones which allow moisture ingress (e.g. where outside paving or soil is above the level of the damp course or where underground water may be penetrating the foundations. Consult SAMSON Technologies for specialist advice). Follow up to ensure water source is found.

Repair

Apply SAMSON **P3 Coat X** and **CrystalSkim** mortar in accordance with SAMSON instructions and scrape this level with the undamaged areas. Finish the **CrystalSkim** with a rubber, steel or wood float, or if more appropriate, use a wetted brush for a textured finish to match the wall. Do not water cure the **CrystalSkim** but protect it from sun and wind to avoid too early surface drying.



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Warranty

Samson warrants that its products will perform as declared in its literature and this warranty extends only to the replacement of any of its products that may be proven to be defective.

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Decorate

SAMSON **DecorTex** is the ideal cement-based coating to finish off the repair. Where matching of existing paint colours is required overcoat the **DecorTex** with a matching colour, acrylic water-based paint. Where this process is used on walls subject to rain, a flood coat of **DecorGuard** water repellent treatment will ensure repairs are water resistant. SAMSON **DecorGuard** may be applied to painted or unpainted surfaces to induce water repellency and therefore making the walls watertight.

Solving Typical Damp Problems in Buildings

Damp buildings contribute to the ill health of people living or working in them. Porous bricks or concrete blocks may be water-proofed by using **Siloxane Solution** or **DecorGuard**. Where algae or fungus are encountered use an algacide or fungicide such as Hypochloride. Furthermore, wet walls are difficult to warm and can contribute to colds and chills. Air conditioners are also suspect since condensation is a natural result of the cooling of hot air and drainage should be inspected to ensure that air conditioner drainage does not contribute to damp problems.

The use and benefits of penetrating water repellents:

Unplastered, unpainted outside wall surfaces can be rendered water resistant by the correct use of water repellents. SAMSON Technologies have 3 systems to address absorbency of untreated surfaces, these are:-

- Solvent carried Silane or Siloxane concentrates - **Siloxane Solution**
- Water based emulsions of Silanes or Siloxanes - **DecorGuard**
- Solvent carried Methylmethacrylate resin - **MM Sealer Siloxane, MM Sealer Primer, or MM Sealer Combo**

Flood Coat Application

Liquid water-proofing treatments for walls do not have "a coverage rate". By using the flood coat method differentials in porosity of various surfaces are addressed. A very porous, common brick wall may need 1 to 1.5 litre of products per square metre. Alternatively, a dense plastered or already painted surface may only require 1 litre to cover 6 square metre. Start at the top spraying evenly and then continuing to progress down the wall spraying wet on wet leaving no dry spots.

Effective Life of penetrating Water Repellents

A good quality product correctly applied will provide at least 5 years and up to 10 years of effective protection. If the effectiveness wears off simply re-apply the product.

Treating algae or fungus growth

Spray algacides or fungicides (such as: hypochlorite or Household bleach) to destroy mould which can then be wire- brushed off. Concrete surfaces should then be treated with a suitable hydroxide conversion chemical (such as – SAMSON **HC Densifier**) and thereafter, rendered water-resistant with one of the spray-on water repellents listed above.

General Note

SAMSON **Siloxane Solution** or **DecorGuard** will not change the appearance or colour of substrates to which it is applied. The "MM" products will slightly darken and provide a low sheen on substrates.

Estimating Data

P3 Coat X

6 L of water plus 20 kg of power will yield approximately 12 L of slurry.



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This mixture will cover 10 to 15 square metres, dependent on the porosity and profile of the prepared substrate.

CrystalSkim

Mixed with about 16 % water each 2 kg of **CrystalSkim** powder will yield about 1 litre of plastic mortar.
16% water addition by weight.
4 Litres of water / 25kg bag.

DecorTex

2m² – 4m² per Litre depending on the condition of the substrate.

DecorGuard

Only by trial can application rates be established. Each surface should be allowed to

suck in as much **DecorGuard** as it will absorb. However as a guide, on “good paint” you will treat 20m² with one litre. Very absorbant bricks may only allow 5 to 10m² per litre to be treated.

Packaging

P3 Coat X, CrystalSkim and DecorTex is packaged in 20 kg polylined bags.
DecorGuard is available in 5L and 25L jerry cans.

Shelf-Life

12 months correctly stored.

Storage

As for portland cement keep dry in closed bags.

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