



# *CRYSTIC*<sup>®</sup> ROOF

A background image of a house with a tiled roof, partially obscured by a white silhouette of a roofline. The image is split into two vertical panels: the left panel shows a traditional tiled roof with some moss, and the right panel shows a modern, smooth blue roof surface.

REPAIR

PU ADHESIVE  
& SEALANT

CrysticROOF<sup>®</sup> Repair is a GRP roof repair system.

The system includes CrysticROOF<sup>®</sup> Repair resin and CrysticROOF<sup>®</sup> PU Adhesive & Sealant that work together to repair damaged GRP roofs.

# CrysticROOF® REPAIR



CrysticROOF® Repair is a thixotropic and fiber-reinforced, one component polyurethane liquid membrane used for repairing damaged GRP roofs.

Due to its unique formulation, CrysticROOF® Repair cures rapidly to form a thick layer membrane with excellent mechanical properties.

## USAGE

- Repairing damaged GRP roofs
- Waterproofing of flashings and solar panel systems
- Protection of chimneys, pipes, air-condition units and gutters

## KEY BENEFITS

- **No reinforcement necessary**  
Works effectively in flashing points
- **Smooth finish**  
Bubble and defect free
- **Fast**  
Cures in just 2 hours
- **Weather resistance**  
Ideal for use during the winter months or in low humidity, also UV resistance
- **Good insulator**  
Excellent thermal resistance, the product never turns soft.  
Recommended service temperature 80°C, max shock temperature 200°C
- **Great elasticity**  
Resistance in the cold; the film remains elastic even as low as -40°C
- **Mechanical properties**  
High tensile and tear strength, high abrasion resistance





# CrysticROOF®

## PU ADHESIVE & SEALANT

CrysticROOF® PU Adhesive & Sealant is a one component, polyurethane-based, low modulus sealant. It can be used on its own as an adhesive sealant or a gap sealant for waterproofing your roof.

It cures by reaction with atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor and **excellent adhesion on substrates traditionally problematic for PU sealants, e.g. glass, aluminum, steel, polycarbonate.**

The extrusion rate and tooling of the sealant remain the same throughout a very wide range of temperature and humidity conditions, as well as being formulated to ensure bubble free cure in these conditions.

### USAGE

- Sealing damaged GRP roofs
- Sealing joints in insitu concrete, in expansion concrete plates, in precast panels, irrigation channels and in water tanks and swimming pools
- Sealant for metal frames, glass, granite and marble and aluminum windows and panels
- Adhesive for brick and block work and fixing of roofing trims
- Bonding GRP to GRP





# CrysticROOF®

## PU ADHESIVE & SEALANT

### KEY BENEFITS

- **Smooth finish**  
Gives a smooth tooled finish
- **Excellent thixotropy**  
Can be used on large expansion joints
- **Excellent adhesion**  
With or without the use of special primers\*
- **Easy to work with**  
Great extrusion, tooling and storage stability in all climates
- **Excellent chemical resistance**  
Suitable for sealing joints in swimming pools and chemically treated water
- **Great elasticity**  
Low modulus, joint movement accommodation 50%
- **Microorganism and fungus resistant**  
For long-lasting durability

- **Temperature resistance**  
Suitable for application where temperatures may be up to 60°C. As well as resistance to cold; the sealant remains elastic even down to -40°C

**600**  
cc foils

**15**  
per box



# APPLICATION

If you are just using **CRYSTICROOF® PU ADHESIVE & SEALANT**, go to **STEP 3**.

1. Thoroughly clean the surface with a pressure washer making sure any oil, grease and wax contaminants are removed as well as cement laitance, loose particles, mould release agents and cured membranes.
2. Fill surface irregularities with either **CrysticROOF® Repair** or **CrysticROOF® PU Adhesive & Sealant**.
4. Slide **CrysticROOF® PU Adhesive & Sealant** into the applicator gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size.
5. Extrude the sealant into the joint ensuring that no air is trapped in the joint. Tooling is recommended immediately after the application of sealant. The ratio width to depth should be 2:1 subject to a minimum depth of 10mm.

*\*For many applications, primer is not required. In the case of application on very porous substrates, a primer is recommended to bond area surfaces thoroughly. This avoids the possibility of air bubbles being blown into the uncured sealant if the substrate temperature rises.*

3. Apply backing material such as open cell polyurethane or a closed cell polyethylene backing rod. Both types of backing rod are recommended, care must be taken when using the closed cell polyethylene rod that the outer skin not be punctured, in rising temperature conditions it may cause bubbling. Backing rod application is important as it ensures that the correct width to depth ratio is achieved to provide a firm backing against which the sealant can be tooled off.



# CrysticROOF® OVERVIEW

✓ **Flexibility**

More than 300%

✓ **Requires the addition of additives and hardners**

No, ready to use

✓ **Application time**

Very fast, one coat, reinforcing fleece and a final coat

✓ **Hardness**

60 Shore D without the need for a topcoat

✓ **Tensile strength**

>20MPa

✓ **Ease of repair**

Can be patched quickly and easily

Prior to application ensure you read CrysticROOF® Repair and CrysticROOF® PU Adhesive & Sealant Technical Data Sheet (TDS)

The information contained within this brochure was correct at time of print, but could be subject to change at any time. The installation guide and materials estimators are 'guides' and should be used in such a manner. If further details are required, please ask for advice prior to installation. **Other products in the range** – please ask for information before use. Y3441V11219

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SCOTT BADER

Making a **positive** difference