

## **Resimac Resichem 557EC/558UV Polyroof valley gutter system application guide**

### **Surface Preparation**

- Large deposits of contamination such as dirt, silt and leaves should first be swept away from the surface to be coated.
- Any fittings such as lead flashings and roof furniture should be lifted away from the surface where possible.
- The area to be coated should now be power washed using a detergent cleaner and then repeated with clean water to remove all residual contamination. The surface should now be left to dry.
- Any areas historically subjected to moss and lichen growth should be treated with a proprietary fungicidal wash and allowed to dry in accordance with the manufacturer's guidelines.

#### **Masonry surfaces**

- As well as cementitious flat roofs, Resimac roofing systems may be required to coat up and over masonry structures such as upstands and parapet walls. Any cracks or missing mortar must be cleaned out and re-filled using a suitable cementitious mortar, the mortar should be applied in full accordance with the manufacturer's specifications and must be dry prior to overcoating.

#### **Metallic surfaces**

- Abrade with mechanical hand tools wherever possible and hand tools when necessary to remove loose corrosion, clean with solvent wipe (MEK or similar).

#### **GRP/plastic**

- Abrade with abrasive paper, taking care not to expose any glass fibre. Clean with solvent wipe (MEK or similar)



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## Priming

### Masonry surfaces

- All brick work and cementitious surfaces must be dry (<8% moisture). It should then be primed with Resichem 503SPEP. The material can be applied by brush or roller. The theoretical coverage rate is 6.5 square metres per litre however the practical coverage will vary depending on the porosity of the substrate. The minimum overcoating time is 8 hours and the maximum 24 hours at 20°C.
- If the moisture content is >8% but <20%, the 503SPEP may be substituted for Dampseal 505. Application parameters are otherwise the same as the Resichem 503SPEP.

### Metallic surfaces

- Primed with Resichem Aluprime 506. Applied by brush or roller at a coverage rate of 6.5 square metres per litre. At 20°C the minimum overcoating time is 8 hours and the maximum 24 hours.

### GRP/Plastic

- Primed with Resichem Aluprime 506. Applied by brush or roller at a coverage rate of 6.5 square metres per litre. At 20°C the minimum overcoating time is 8 hours and the maximum 24 hours.

## Detailing and joints

All joints should be inspected, any loose joints should be made good by either tightening/replacing existing fitting mechanisms or filling any voids with an appropriate cementitious or solvent free epoxy filler. Small voids and cracks where there is no significant movement can be filled with a single part PU sealant.

Prior to the application of material to the main gutter area; all cracks, joints or any other area where movement could possibly occur should first be covered with a 75mm plastic backed adhesive (duct) tape.



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Once the full system is applied these will act as a bond break which will allow for the localised flexing.

The tape should be applied evenly and without creasing, where necessary overlap the tape to ensure the total area is covered. The tape should extend to the top of the vertical gutter edges and where possible around the top edge.

Once the tape has been applied it should then be encapsulated with a layer of the Resichem 557 Polyroof EC 661 material and 225g chop strand mat. The Resichem 557 Polyroof EC 661 material should be applied at between 1 and 2mm thickness with a brush or long pile roller. The mat should be laid over the tape so that the tape is fully captured with no exposed edges. When required the matting should overlapped with itself by a minimum of 10-20mm. It is advised to apply this "stripe coat" as soon as possible after the duct tape has been applied as this will minimise the chances of the duct tape detaching from the substrate.

Other areas requiring this detailing work include but are not limited to: -

- Angular protrusions
- Water outlets
- Upstands
- The meeting of 2 dissimilar substrates eg asphalt and brickwork

All detailing work should be carried out in accordance with the specified material data sheet and then allowed to cure.

## **Application of Resichem 557 Polyroof EC 661**

The Resichem 557 Polyroof EC 661 coating should be applied by long pile rollers and brushes at a spreading rate of 1.5 litres per sqm to the gutter.

The preferred method is to do this 1 metre wide runs to incorporate the width of the reinforcement. However, it is recommended to treat any upstands or sections with difficult access first. Sections of reinforcement sheet should be measured and cut to sizes which will enable moulding around awkward structures and edges.

The coating should be applied at the recommended spreading rate and then a pre-cut length of reinforcement should be laid into the wet coating and then using rollers the material should be drawn through the matting. More material may be needed to fully encapsulate the matting. Creasing of the reinforcing needs to be avoided, where this occurs the sheet should either be lifted and re-laid or cut with a sharp knife to allow the sheet to lay flat (a small patch of reinforcement may be needed to cover any unreinforced section).

When applying matting to the next section care should be taken to ensure that each layer is overlapped by 25-50mm to ensure there are no unreinforced areas. The process should be repeated until the entire area is coated and reinforced.

Care should be taken throughout the application to ensure the correct spreading rate is maintained. Failure to adhere to this will result in reduced performance and life span.

This first coat should now be allowed to cure for a period in accordance with the relevant material technical data sheet.

## **Application of Resichem 558 Polyroof UV 662**

Prior to application of the Resichem 558 Polyroof UV 662 coat, a thorough inspection of the previous coat should be carried out.

Any remedial work such as exposed or "wicking" of reinforcement needs to be sanded flat or cut out with a sharp knife. If necessary, these sections should be patched with fresh material and a piece of new reinforcement. These repair areas will now need to cure before over-coating.

The roof should be dry, with any ponded water brushed or cleaned away with rags.



The Resichem 558 Polyroof UV 662 coat is applied by brush or roller without reinforcement at the appropriate spreading rate of 1 litre per sqm, as specified in the technical data sheet. It is recommended that an alternative colour of material is used for this coat to enable the applicators to ensure all sections receive the full system thickness. This contrasting colour will also act as wear indicator over the lifespan of the roof.

Once cured a final inspection should be done with any remedial work carried out as required. Any roof furniture, lead flashing should be replaced.

*(For more information refer to material data sheets available on Resimac)*