“Self Adhesive”

EPDM TRAINING MANUAL
General Health & Safety

Extreme care must be exercised when working on ladders, roofs, below grade or at elevations above ground. If used as an emergency repair to a roofing system, contact the roofing system manufacturer for compatibility and to ensure compliance with terms and limitations of the warranty. Surfaces can be slippery when wet, damp, or frost covered.

THIS INFORMATION AS WELL AS INFORMATION CONTAINED IN THE MATERIAL SAFETY DATA SHEET AND ON PRODUCT PACKAGING MUST BE REVIEWED PRIOR TO STORAGE, HANDLING OR USE OF THESE PRODUCTS.

Primers as well as their fumes, contain distillates and are EXTREMELY FLAMMABLE. Do not breathe in vapors. Maintain proper ventilation. Store these products away from heat, flame or sparks. Do not smoke near these materials. A fire extinguisher Must be present when these products are used. Containers should be closed when not in use. Care must be taken not to place open containers near fresh air intake ventilators. Avoid contact with eyes, Glasses or goggles are recommended. If contact is made with eyes, immediately flush with water for at least 15 minutes and contact a doctor or physician. Avoid contact with the skin, chemically resistant gloves should be worn. In case of skin contact wash the affected area with soap and water.

When loading materials onto the roof, exercise care to ensure that concentrated loads do not exceed the design load limitations of the existing roof structure. If stacking products, ensure sufficient stability of the materials.

Tools Required

Scissors
Utility Knife
2" Steel or Silicon Hand Roller
2" Diameter Penny Roller
Tape measure
Stiff Broom to push membrane onto primer
9" Medium Pile Roller & Handle
Drill Mixer for FG35 Primer

Coated or Solvent Resistant Gloves
Safety Glasses
Fire Extinguisher
Roof Surface Preparation

The Rubber4Roofs Self Adhesive system will adhere to wood, metal, plastic, glass, fiberglass, rubber, masonry, brick, smooth surface built up roofs, non-granular roll roofing, non-granular “half lap” roofing, painted surfaces, wood fiberboard, lightweight concrete, and polyisocyanurate in conjunction with the FG35 Primer. This product may NOT be applied to polystyrene insulation.

Best practice is to lay the membrane over new OSB or Stirling board.

See table below of substrates that require preparation prior to FG35 Primer.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Abrade with Wire Wool</th>
<th>Clean with G500 / White Spririt</th>
<th>Finish with FG35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick, Concrete, Asbestos, Asphalt, Bitumen Felt, Sawn Timber, Panel Boards</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Imbedded Stone chippings – Isolate by overlaying with Plywood or Roof Felt.</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Cast Iron, Lead, Aluminium, Zinc or Galvanised Steel</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Plastic Gutters. (Results may vary depending on chemical composition of plastic)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fibreglass</td>
<td>Yes</td>
<td>-</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Be sure the roof surface is clean, free of dust, dirt, rust, oil, grease, and loose material. The roof surface must be dry. This product will not adhere to wet or damp surfaces. Trapped moisture may vaporize and negatively affect the performance of this product.

Good roofing practice dictates that ponding water be prevented. The roof surface should have a positive slope of at least 1/2”: 12” to prevent ponding water conditions. Ponding water is defined as the presence of standing water within 24 hours of precipitation.

Before starting please consult the “Health & Safety” section at the beginning of this manual.
Storage and Transportation

Rolls must be transported and stored on end in the original packaging, and where wrapped in UV film must remain in this until required. Keep all tins upright. The FG35 primer has a shelf life of +/-6 months if stored between +15°C and +25°C in a sealed container. Below 5°C the FG35 may thicken and will require vigorous stirring and warming in a hot water bath to +20°C in order to become workable again. Ideally keep tins in a heated room and take outside when required.

Applying the FG35 Primer

1. The FG35 can thicken in cold temperatures so store in a warm room prior to use.
2. If necessary place containers in a bath full of warm water prior to use if the outside temperature is below 5°C
3. Stir the FG35 Primer well before use, ideally using a drill mixer
4. Keep the tin closed when not in use to avoid drying out.
5. Apply the primer uniformly using a lambs wool roller or wide brush
6. Leave for a minimum of 30 minutes (60 minutes recommended) to allow the primer to dry. Touch dry with no Stringing.
7. If condensation occurs due to high humidity gently heat the surface until condensation disappears.
8. Never prime an area larger than will be covered in the same day.

N.B. Partial bonding is allowed, however it is important to fully bond all edges and corners with a 1-metre width. The centre can be 30% bonded as long as the substrate has sufficient de-lamination strength. Bonding using a square pattern.
Laying the Resitrix Self Adhesive EPDM

It is strongly recommended that after allowing the primer to dry that all of the membrane is laid out on the roof so that all cutting can take place prior to the backing paper being removed and the seams welded.

1. Starting at the bottom edge of the roof Lay out the EPDM allowing a 50mm overlap (the membrane is marked to aid alignment.
2. Ensure that all joins are staggered so that they make a “T’ shape rather than a “＋”
3. Round off the corners where visible with a 25mm radius
4. Once all cutting has been completed and you are ready to remove the backing paper roll back one end of the roll to the centre and score the backing paper.
5. Remove the backing paper in front of the membrane whilst allowing it to roll back into position.
6. Using a stiff broom push out the membrane and then Repeat step 5 for the other end.
7. Remove the backing paper from 50mm end lap joints prior to welding to avoid them prematurely sticking. (Avoid treading on the lap joints prior to welding)
Heat Welding
Under no circumstances should a gas torch be used.

1. Position the Nozzle between the two layers of EPDM to be heat welded
2. The hand held seam roller should be rolled at 45° to the lap over the width of the nozzle.
3. Weld away from seams already welded and not towards them as this may result in a fish mouth or wrinkle
4. If a fish mouth appears then patch with an additional piece of EPDM membrane approximately 75mm bigger then the crease in all directions.

It is important to check your weld at the beginning of each day by re-opening a sample weld and ensuring a full 50mm width melt has occurred.

A good weld is normally evident by the appearance of a 1mm bitumen bleed along the seam.
Gutter Edge Detail

1. Space out the roof deck using a tanelised batten screwed onto the front facia to ensure water drips into centre of gutter
2. Using another tanelised batten with a chamfered drip edge staple an additional piece of EPDM and wrap around the drip edge.
3. Heat Weld onto field membrane.