

LIQUID POLYMERS LTD. (UPDATED 09/09/11)



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Rubba-Roof™ Technical Specification Sheet

Rubba-Roof™ manufactured under ISO 9001:2008

High Performance Rubber Waterproof Coating with Exceptional Adhesion for Flat & Conventional Roofs, Balconies, Decking & Sub-ground Damp Proofing

TECHNICAL INFORMATION

100% SOLIDS LIQUID RUBBER MEMBRANE COATING WITH EXCEPTIONAL ADHESION!

Rubba-Roof Professional™ is a solvent free, low odour, liquid applied coating which cures by reaction with atmospheric moisture to produce a flexible and elastomeric membrane with good adhesion to a variety of substrates. It is MDI based, and contains no tar or bitumen, and therefore presents minimal hazard in use. Being liquid applied the material allows a completely seamless application over an entire area, even if the structure is complex and undulating, and will accommodate a degree of substrate movement although it is essential that the supporting substrate is sound and stable. For all practical purposes Rubba-Roof Professional is impervious to moisture, and it is therefore essential to take account of any vapour drive within a structure, its use and circumstances.

Rubba-Roof Professional™ is supplied in a choice of two colours:

- Black (Rubba-Roof Professional™100)
- Grey (Rubba-Roof Professional™102)

Areas of Application:

Roofing:

Rubba-Roof Professional™ can be used as waterproofing membranes on most roofing substrates including; roofing felt, asphalt & bitumen, corrugated asbestos sheet & Iron, slates, tiles, concrete, brick, wood, glass, ferrous metals, lead and copper. **Note:** *Roof structures, especially flat ones, should not be expected, or designed to be permeable to water vapour as a means of ventilating the structure. Providing positive ventilation in the form of wall vents, roof vents or opening windows is the best method of removing large amounts of water vapour from a building.*

Balconies & Decks:

Rubba-Roof Professional™ can be used on balconies and decks not subjected to heavy foot traffic or high heels. A minimum thickness of 1.5mm should be applied and it is recommended that a reinforcing fleece be embedded into

an initial application. Where slip resistance is important, fine dry aggregate or silica sand should be broadcast over the surface of the final application before it fully cures.

Sprayed P.U. Foam Insulation:

Rubba-Roof Professional™ has excellent adhesion to sprayed PU foam and can be used as a waterproof coating on the foam without the use of a primer. Guidelines from the foam supplier should be followed regarding overcoat times.

Sub-Ground Structures:

Rubba-Roof Professional™ can be used to waterproof and protect sub-ground structures. If the structure is to be back filled, the coating thickness must be thick enough to resist penetration of sharp aggregates and reinforcement fleece is recommended.

Ponds & Potable Water Systems:

Rubba-Roof Professional™ should not be used to line ponds, swimming pools and domestic and potable water systems.

Application Notes:

It is important that correct preparation is carried out to ensure that the substrate is clean, dry and free of loose and friable material. Porous substrates must be sealed with Rubba-Roof Primer.

Liquid Polymers Ltd. systems are membrane coatings, *not paints*, and a higher dry film thickness (dft) is therefore necessary to achieve proper elastomeric performance and protection.

The minimum membrane thickness should be 1.0mm (1kg/m²) and this is achieved with the following considerations;

- Two 0.5mm applications will tend to eliminate thin areas and pin holing, but will incur greater labour costs.
- Care must be exercised to ensure that a second application takes place within 4-5 days to ensure good inter-coat adhesion. If the re-coat time is exceeded, the cured membrane **must be primed** with **Rubba-Roof Professional Primer** before re-coating.
- A single application of 1.0mm reduces labour costs and eliminates problems of over-coating within specified time limits, but care must be taken to ensure uniform film thickness and avoid pin-holing.

Methods of Application:

Rubba-Roof Professional™ can be applied by using a rubber squeegee, suitable roller, or short haired brush for detailing work.

Application Procedures:

Cracks & Depressions: Cracks not liable to movement should be filled with mastic filler. Allow for the solvent they contain to evaporate. Deep depressions should be similarly treated. Prime porous substrates with **Rubba-Roof Pro Primer**. Apply 2 x 1mm coats of **Rubba-Roof Pro**. In areas where standing water may occur, 3 coats should be applied. Reinforcement fleece may be used in the middle layer. Do not apply any coat at more than 2mm thick, but any number of coats can be applied, within 4-5 days intervals.

Expansion Joints & Live Cracks:

Joints and cracks should be over-banded as follows. Clean surrounding surfaces.

For microporous surfaces use RR Primer and when dry proceed as follows. Treat the inside of the crack and an appropriate area to either side with Rubba Roof Compound. Press into the wet Rubba Roof Compound a suitable width and length of Rubba Roof Reinforcing Fleece, making sure no air is trapped behind the fleece. If necessary bring to level the aperture of the crack to match that of the surrounding area by embedding a small rolled piece of Rubba Roof Reinforcing Fleece. Make sure that edges of the Rubba Roof Reinforcing Fleece are fully embedded in the Rubba Roof Compound either side of the crack; allow to cure to state where the Rubba Roof Reinforcing Fleece is stable and cannot be shifted by lateral pressure of the hand. Then apply a second coat of Rubba Roof Compound to totally encapsulate the cracks in question, feathering the edges into the adjacent Rubba Roof coatings

Do not stretch the reinforcing fleece.

Bolt heads etc. should be given 2 coats **before** the general application.

Rigid Sheet Roofing:

Holes and cracks in sheet roofing cannot easily be repaired with mastic material, as the sheet has no appreciable thickness in which to provide a key. Damage should therefore be over-banded as described above. When a hole is being patched with reinforcing fleece, the overlap must be large enough to prevent the impregnation fleece sagging. Large holes in roofing sheet will necessitate replacement of the whole sheet.

Abutments, Flashing, Valleys, Fitting Bases, Up-Stands etc:

Rubba-Roof Professional is self-flashing and can be used to create up-stands. In such cases the angle between the vertical and horizontal surfaces should be over-banded with 300mm reinforcement fleece. This should be embedded into the first coat as it is applied and rolled to prevent creases and bubbles. The fleece should be installed 150mm up the vertical and 150mm on the horizontal. Apply 2 coats of **Rubba-Roof Professional**. Alternatively a cant strip or cover fillet can be installed at the vertical/horizontal joint in order to reduce the membrane stresses at a right angle.

Special Substrate Preparation:

Bituminous Surfaces (Roofing Felt, Asphalt etc):

Remove all loose chippings, dust, fungal growth etc. Note that where chippings remain embedded, the surface area is substantially increased and will require a commensurately greater amount of coating in order to provide the minimum thickness. Allow to dry thoroughly, including the evaporation of moisture from within the layers of felt. At least 3 coats are recommended over chippings. Cut open any blisters and coat the underside with **Rubba-Roof Professional™** and secure with felt nails, brushing out any exuded liquid. **Rubba-Roof Professional™ Primer** can be used on aged felt which has become friable but primer is not necessary on good surfaces. Apply **Rubba-Roof Professional™** as directed above.

Cementitious & Porous Surfaces (Concrete, Render, Corrugated Asbestos Sheet etc.): Allow at least 28 days drying time for new concrete. Remove all laitance, all loose and foreign material and spots. All friable or dusting surfaces must be cleaned back to a firm base. Any plant or fungal growth should be removed completely. The application of a fungicidal wash is recommended if growth is excessive. Apply **Rubba-Roof Primer** to very absorbent surfaces, 2 applications of primer are recommended. For initial priming coat, **Rubba-Roof Professional™** primer may be diluted up to 20% with **Rubba-Roof Professional™** solvent. Follow by 1 or 2 applications of **Rubba-Roof Pro**.

Slates & Tiles:

Clean thoroughly as above and carry out any necessary repairs. Prime porous surfaces with **Rubba-Roof Professional™ Primer** and apply 1 or 2 coats of **Rubba-Roof Pro**. Reinforcing fleece will probably be necessary

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because of the number of joints. **NOTE:** that a continuous membrane over tiles may inhibit ventilation and cause internal condensation. It is therefore essential to ensure **adequate ventilation** is provided.

Metal:

For **ferrous** metal substrates, remove any previously applied coatings, rust and scale by mechanical means, or wire brush if rust is only superficial. Apply **Rubba-Roof Professional™** primer to dusty surfaces. Prepare the surface immediately prior to coating to prevent flash rusting. Apply one or two coats of **Rubba-Roof Pro**. Do not apply to deeply rusted surfaces without first treating with anti-corrosive primer.

Non-ferrous surfaces such as lead, copper, brass, stainless steel and sound galvanizing should be cleaned and thoroughly de-greased before application of **Rubba-Roof Pro**. Damaged or rusted galvanised sheet should be treated as for ferrous substrates.

Metal Backed Flashing:

New metal backed flashing strip may have residual silicone on the surface. Wash with high flash aromatic solvent. Allow to dry. Abrade the surface and apply **Rubba-Roof Pro**.

Wooden Surfaces:

Remove all paint and varnish to a clean and dust-free surface and apply **Rubba-Roof Professional™** directly to the wood, ensuring the surface is dry.

Always use **Rubba-Roof Professional™ Primer** on timber roofing and unseasoned material which is likely to be damp or porous, including chipboard and plywood.

Ensure that chipboard or plywood is exterior quality and establish that no silicone, stearate or other water repellent treatment has been previously applied.

Note: Primer is *not* required for Marine-Ply

Rubber Surfaces: When coating rubber, thoroughly clean and prepare the surface then apply Rubba-Roof Professional™ **Primer** prior to coating with **Rubba-Roof Pro**.

Viscosity:

Rubba-Roof Professional™ is 100% solids, solvent free, has a high viscosity and is not designed for thinning; both Bannerdol-G and Xylene (available from most commercial paint shops) can be used as a cleaning solvent for airless spray machines or general cleaning. Heat bands are very good at reducing viscosity after being thoroughly stirred with a powerful electric drill.

Packaging:

Rubba-Roof Professional is available in 20kg, 10kg, and 6kg tins.

Handling and Storage:

Rubba-Roof Professional should be stored in a covered area **above 5°C and below 30°C**. and will have a shelf life of at least six months under these conditions providing that the tin has not been opened or damaged allowing air to activate the curing process.

When applying **Rubba-Roof Professional™** in cold weather conditions we recommend that the product be warmed prior to use so as to improve fluidity, this can be effectively achieved by using heat bands.

Rubba-Roof Professional™ is classified as harmful for use but is not considered hazardous for transportation.

Good standards of industrial hygiene should be observed when handling all components. The use of protective gloves is highly recommended and users should consider the use of goggles if splashing during use is a possibility. The recommendations made in the [Health and Safety data sheet](#) for this product should be observed at all times.

Rubba-Roof Professional™ contains small amounts of 2,4'diphenylmethane-diisocyanate and the advice contained in the Liquid Polymers Health and Safety Data Sheet is of particular importance.

Technical Information:

Rubba-Roof Professional™100-Matt Black

Rubba-Roof Professional™102-Grey

Tensile Strength 2.6 2.6

Elongation % * 400 min 400 min

CONTACT INFORMATION:

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Product Warranty