

PEKAY T570 Rubberseal

Description

Pekay Rubberseal T570 is a rubber-latex modified anionic bitumen emulsion, which dries to a pliable, flexible, waterproof, black coating. It may be used for a variety of applications with or without a supporting membrane. The product may be applied by brush, roller or airless spray.

Uses

Rubberseal T570 is suitable for a variety of waterproofing and insulating applications:

- to waterproof metal, or flat concrete roofs
- to waterproof dams and roof gardens
- in conjunction with supporting membrane, it may be used to form a durable waterproof coating which may be rendered trafficable by the use of a slurry topcoat.
- to waterproof retaining walls and basements
- for lining drinking water tanks
- for vapour barrier protection of insulated piping
- in the construction of cold rooms
- suitable as a bond breaker between concrete construction slabs.

Preparation & application details

1. Preparation and basecoat application – flat concrete roofs

Surfaces should be clean, dry and free from oil. Poor quality surfaces should be primed with G 223 solvent based primer. Sound surfaces can be primed using T570 diluted 1:3 with water.

Generously apply a layer of T570, with a brush or roller at a coating rate of 1,5 - 2 m²/ Lt.

Embed the supporting membrane into the still-wet base coat. Suitable supporting membrane includes non-woven, needle-punched polyester or polypropylene fibre such as Pekay Safbond.

Special care must be taken to push the fabric into corners and crevices – an old hard brush should be used for this purpose. Fabric should be taken over the top of the parapet walls.

Membrane for box gutters should be cut to shape beforehand. The base of the box gutter should consist of a single piece of membrane and should be placed last.

2. Preparation and basecoat application – metal roofs

Clean off flaking paint from the surface. Remove all solid matter and wire brush rusted areas. Apply YY99 Pekaklene.

Apply an extra coat of Rubberseal T570 over screws, overlaps, joints, ridges and flashings to ensure a good seal. Embed a 100mm wide membrane into the treated area ensuring that the membrane is wrinkle-free.

Special care should be taken to apply thin coats only on metal roof waterproofing. The low water permeability of T570 and the rapid skinning that occurs especially on hot roofs prevents the T570 from drying out properly.

3. Application of the impregnation coat

T570 must be applied to a dry film thickness of at least 2,5 mm including the supporting membrane on concrete roofs. In the case of a metal roof, this amount of T570 is only required on the overlaps and gutters. For water features a thickness of at least 1mm is required. In the case of reservoirs, the use of T570 should be as part of a system which includes correct treatment of hairline cracks, expansion

joints, mortar repair of poorly compacted concrete etc., and is therefore usually brush- applied as a single or two layer systems to a thickness of 500 – 1000 microns.

The Rubberseal T570 should be poured onto the surface and then spread out immediately. A coating rate of 1,2 - 1,5Ltr /m² is needed for complete final saturation of the supporting membrane. For best results the Rubberseal T570 should be applied as soon as possible after the base coat has been applied.

Using a hard brush or firm broom, squeegee the T570 over the membrane, applying sufficient pressure to ensure complete membrane penetration.

The use of soft rollers is not recommended, as they are usually not able to force the T570 into the substrate. Once this step has been completed the saturated membrane should be left to dry fully before proceeding. This should take between 72 hours and 7 days depending on the weather.

4. Top-coating and film build-up with T570

Before applying the topcoat, check that the saturated material has fully adhered to the base coat. Any bubbling or loose spots must be cut open and patched.

Apply two thin topcoats of un-diluted T570 over the dry saturated material at a coat rate of 2 - 3 m²/Lt using a roller or brush. Allow the surface to dry before proceeding.

5. UV and weather protection

The Rubberseal T570 system may be top-coated with a variety of materials to suit the end user. Where the system is not subject to exterior exposure, such as in dams, tanks and basements, it is sufficient to leave the T570 uncoated. Where exterior durability is required, a coat of Pekay F835 Acryl-Seal is recommended. Other suitable topcoats include Q147 Acrylic Roof Paint and U538 Bituminous Aluminium Paint. Note: T570 should be weathered for 2 weeks prior to applying a protective layer.

Specifications

Base	: Latex Rubber modified bituminous emulsion
Specific gravity	: ± 1.0 kg/l
Solvent	: Water
Viscosity	: Thick, buttery
Solids	: 60 ± 2% w/w
Colour	: Brown, dries black
Water vapour permeability	: 0.08 g/s.MN (25° C and 75% R.H.)
Elongation at break	: Up to 100%
Exposure resistance	: Tested to 500 hours Q.U.V. no defects
Application temp	: 5° to 40°C
Service temp range	: -30° to 60°C
Storage temp range	: 5° to 35°C
Flammability	: Non-flammable wet. Does not sustain flame dry.
Packing	: 5 Ltr, 25Ltr, 200Ltr steel drums

Special applications

Basement dams and water tanks

Rubberseal T570 may be used as a barrier coating to prevent water ingress through masonry, brick and concrete walls and water egress through dams and tanks. It should, however, form only part of an overall repair system for a dam or tank, and cannot usually be used as the sole waterproofing medium. The outside walls of basements and the inside walls of water tanks should be coated with up to 5 layers of T570 to give dry film thickness of 1.0 – 1.2mm for adequate protection. Where the surface is cracked and damaged, supporting membrane may be necessary.

Rubberseal is also suitable for reducing seepage in earth dams. Soil must be well compacted before coating. The entire area is covered with a suitable Geotextile such as Bitumen U14. Diluted T570 is

used to saturate the Geotextile from the top downwards. Thereafter 4 - 6 coats of undiluted T570 are applied to give a total coverage of 2.0 to 2.5 litres per square metre.

Bond breaking between concrete slabs

Rubberseal T570 may be used as a bond-breaker between old and new casted concrete slabs, to prevent adhesion between them, and to ensure the joints can slide past each other. Apply 2 generous coats of T570 (approx. 1,5 to 2 m² per litre) to the old concrete. Allow to dry for 3 – 6 hours, and continue with casting of the new concrete against the old.

Limitations & precautions

- Do not freeze
- Do not apply in inclement weather
- Allow to dry for at least 72 hours before immersion
- Surfaces to be coated must be dry
- Not suitable for flat roofs with falls less than 1:100

Should a performance guarantee be required, an approved applicator will be appointed and a guarantee will be issued by the Company in writing.

<p>The information contained in this technical data sheet is to the best of our knowledge correct. NO GUARANTEE IS EXPRESSED OR IMPLIED. Users must satisfy themselves as to the efficacy of the product in their application.</p>
