

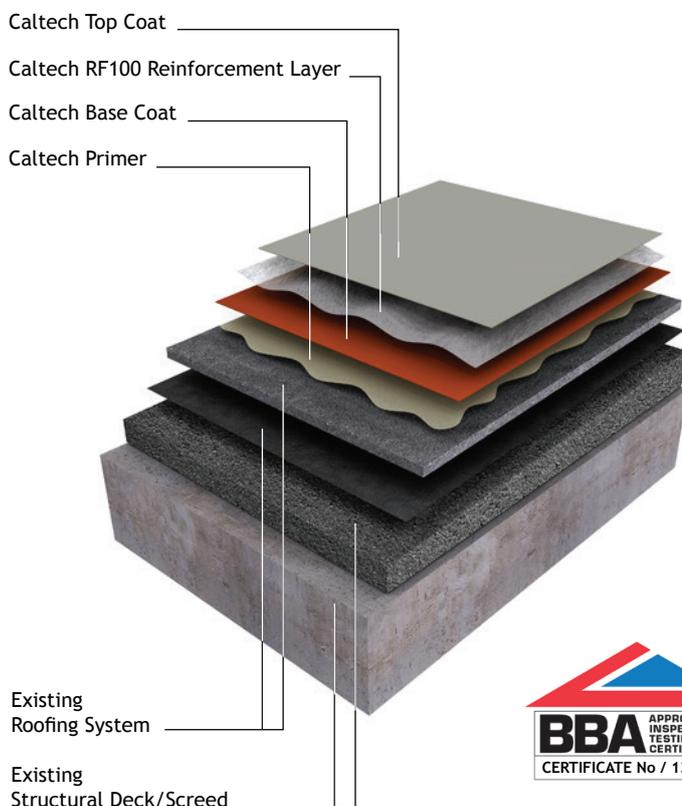
Cold-Applied Liquid Polyurethane Overlay

✓ When to Specify

Eurorooft Caltech cold-applied liquid waterproofing is ideally suited to the overlay of existing roof coverings in need of refurbishment. Eurorooft Caltech cures rapidly to form a seamless, elastomeric membrane that restores the long-term waterproof integrity of the roof whilst minimising disruption.

eurorooft

roofing systems



☀ Warranties

Alumasc offers a comprehensive range of warranty options. Installed exclusively by Eurorooft Caltech Registered Contractors and underpinned by Alumasc's extensive project support service, Alumasc warranties cover both product and installation. Independent insurance backed latent product defect warranties are also available through FSA licensed brokers. Warranty periods for Eurorooft Caltech are up to 25 years.

Key Features

Lifespan

Eurorooft Caltech systems have BBA accreditation for a typical life expectancy of 25 years. Systems can be tailored to suit specific guarantee and surface finish requirements.

Durability

Eurorooft Caltech is reinforced with a chopped strand emulsion bound fibreglass fabric to ensure excellent mechanical properties and dimensional stability, maximising durability.

Performance

Eurorooft Caltech is a cold-applied liquid polyurethane, with a high solids content. With embedment of the fibreglass reinforcement the liquid bridges over undulations, fissures and vulnerable points within the existing roof, forming a seamless waterproofing membrane.

Cost-effective

With ease of installation and rapid curing, Eurorooft Caltech avoids the need to strip off the existing roof for landfill, providing excellent time and cost efficiencies.

Quality

Eurorooft Caltech's manufacturing process is regularly independently assessed by the BBA, ensuring a consistently high performance product.

Versatility

The cold-applied liquid nature of the Eurorooft Caltech system allows application to complex or clustered details and in areas of difficult or restricted access. Detail work can be executed first, enabling works to be completed out of sequence where necessary.

Surfacing

Eurorooft Caltech has a smooth light grey, mid-sheen finish. Other colours are available to order. Aluminium oxide grit granules can be incorporated within an additional layer of Caltech top coat to form an anti-slip surface where required.

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Application

1. Clean and prepare the existing substrate to receive a new waterproof covering and apply the Caltech Porous Primer (for porous substrates), Caltech Bonding Primer (non-porous substrates), or other appropriate primer as specified.
2. To suitably cleaned and prepared penetrations, drainage outlets and upstands etc dress the Caltech System by at least 150mm above the finished roof surface. Seal the top of the upstand with the appropriate trim or PU sealant etc.
3. Install one coat of Caltech Fibreforce to all upstands, protrusions and hard edges at a rate of 1kg/m² (25 year systems only).
4. Detail work is normally executed prior to the application of the main field area. Steps 5 - 10 below apply to both.
5. Thoroughly mix the Caltech Base Coat and apply to the prepared surface using a roller at a minimum coverage of 1.0 1.4 litre/m². Base coat coverage rates may vary, depending upon the porosity and roughness of the substrate.
6. Whilst the Caltech Base Coat is wet, embed the Caltech RF100 fibreglass reinforcement fabric and roll until the mat is completely embedded and saturated with the base coat. Overlaps in the reinforcement must be a minimum of 50mm.
7. Check the coating for pinholes and exposed reinforcement and apply further Caltech if and where required. Caltech Base Coat is touch dry within 4 hours depending upon ambient conditions. Always allow the base coat to dry for at least 8 hours fully before applying the top coat.
8. Apply the Caltech light grey Top Coat. Thoroughly mix and apply on the clean, dry fully cured base coat at a rate of 0.75 litre/m² for 15 year systems and two coats of 0.63 litre/m² for 25 year systems. Ensure the top coat has fully cured before allowing pedestrian or other traffic.
9. Note that application rates can vary depending upon the system being installed and the porosity and roughness of the substrate.
10. For two layer Caltech Top Coat systems, use a contrasting colour (eg. dark grey) for the first coat.
11. Anti-slip walkways can be created by casting aluminium oxide grit into a further layer of Caltech Top Coat applied at 0.25 litre/m².

NB: Eurorooft Caltech waterproofing systems are exclusively installed by a nationwide network of Eurorooft Caltech Registered Contractors.

*The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice.
The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.*

System Components

- Eurorooft Caltech is a single component quick-curing elastomeric polyurethane system, cold applied in two or more layers direct to the existing roof membrane, forming a seamless elastomeric waterproofing, incorporating a 100g/m² chopped strand bonding fibreglass reinforcement.
- Caltech Porous Primer is an excellent solution for the application of waterproofing on porous substrates (e.g. concrete, timber, existing asphalt or felt).
- Caltech Fibreforce is an embedment coat for details and upstands, containing inert chopped fibres.



Technical Support

Alumasc Technical Services provide an extensive project support service that includes site surveys, project specifications, performance calculations (e.g. U-values, condensation risk analysis), CAD detail drawings and general technical advice.

Contact Alumasc Technical Services via:

☎ +44 (0) 1744 648400

✉ roofing@alumasc-exteriors.co.uk

Online resources are available on our website or via the embedded links below:

Web Links

- 📄 [Brochures & Datasheets](#)
- 📄 [NBS Specifications](#)
- 📄 [CAD Drawings for typical details](#)

www.alumascroofing.co.uk