

## Description of Product

Caltech FCP Detail is a fibre-reinforced polyester detailing compound designed for use in complex detailing applications, bridging gaps, and carrying out localised repairs prior to the application of the main waterproofing membrane.

The resin is cured using a Catalyst.

## Product Information

| Caltech FCP Detail |                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product code       | FCP-DETAIL                                                                                                                                                                                                                                          |
| Composition        | Unsaturated fibre-reinforced polyester resin                                                                                                                                                                                                        |
| Packaging          | 5 kg tin                                                                                                                                                                                                                                            |
| Shelf life         | 12 months from the date of production when stored correctly                                                                                                                                                                                         |
| Storage            | Keep in original unopened containers to prevent air and moisture ingress. Store only in dry conditions away from heat, direct sunlight, and oxidizing agents at temperatures between 5°C and 25°C. Improper storage may affect coating performance. |

## Application Information

Factors such as temperature, humidity, and moisture content can affect application and curing. Application in damp or cold conditions that may result in surface condensation must be avoided.

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Air temperature       | 5°C minimum air temperature and rising; maximum 30°C                          |
| Humidity              | 85% RH maximum                                                                |
| Substrate temperature | All surfaces must be at least 3°C above the dew point.                        |
| Use of additives      | Add to extend the resin pot life in both high and low temperature conditions. |

**Caltech FCP Catalyst** (Powder) mixing ratios:

✓ Catalyst dosing is measured using the supplied scoop. Each level scoop contains approx. 12.5g of catalyst.

| Air temp range    |        | 5-10°C                                | 11-17°C | 18-30°C |
|-------------------|--------|---------------------------------------|---------|---------|
| Catalyst addition |        | 4%                                    | 3%      | 2%      |
| Volume            | Weight | Number of catalyst scoops to be added |         |         |
| 0.5               | 0.6    | 2                                     | 1.5     | 1       |
| 1                 | 1.2    | 4                                     | 3       | 2       |
| 2                 | 2.5    | 8                                     | 6       | 4       |
| 3                 | 3.7    | 12                                    | 9       | 6       |
| 4                 | 5.0    | 16                                    | 12      | 8       |

  

| Product              | Product code | Packaging |
|----------------------|--------------|-----------|
| Caltech FCP Catalyst | FCP-CATALYST | 1 kg      |

## Mixing

- Mix the Caltech FCP Resin thoroughly, ensuring the material is blended from top to bottom using a wooden spatula. When mixing a full 5 kg unit, hand mixing may be difficult; therefore, the use of an EPI mixer set to its lowest speed.
- Powder Catalyst is added to the resin as level scoops using the measuring scoop provided. Ensure all catalyst is transferred into the resin and mix thoroughly for a minimum of two minutes. Confirm that the catalyst is fully dissolved within the resin.

Catalyst levels may be adjusted to suit site conditions but must not fall below the minimum recommended rate. Check pot life before application and use smaller mixes in hot conditions to maintain adequate working time.

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## Substrate Preparation

Surfaces must be clean, dry, and free from contaminants.

Preparation and priming requirements vary depending on the substrate type and condition. Refer to the Alumasc project specification or contact Technical Services for guidance.

Adhesion tests must be undertaken to confirm that surface preparation and coating application meet the specified requirements. Installation may only proceed once satisfactory adhesion has been achieved.

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## Primer Range

- **Caltech FCP Universal Primer**  
Suitable for concrete, timber, masonry, fibre cement boards, and bituminous, asphalt, liquid waterproofing.
- **Caltech Metprime Detail**  
Suitable for small areas of metal detailing on all types for degreased metal substrates.
- **Caltech FCP SP Primer**  
Suitable for Single-Ply membranes.

Refer to the applicable Product Data Sheet for full details.

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## Application

Prior to application, ensure all preparation is complete.

Apply by brush an even coat of catalysed Caltech FCP Detail to the prepared substrate at a minimum coverage rate of 1.85 kg/m<sup>2</sup>.

Once Caltech FCP Detail has cured, apply a coat of catalysed Caltech FCP at a minimum coverage rate of 0.50 l/m<sup>2</sup>. Allow to cure.

Cure time of the resin is as low as 30 minutes subject to ambient temperature and relative humidity at the time of installation.

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## Additional Information

Coverage rates provided are indicative only and the contractor must determine the exact coverage rates according to the substrate.

Grit, salt, or other de-icing agents must not be used between layers of Caltech FCP, as they may adversely affect curing and inter-coat adhesion.

Where works are carried out in confined spaces, all relevant guidance and control measures detailed in the Safety Data Sheet must be always adhered to.

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## Health & Safety

Copies of Alumasc Safety Data Sheets can be downloaded from the Alumasc Roofing [website](#).