

## Description of Product

**Caltech FCP Unpigmented** is a reinforced, cold-applied polyester liquid membrane supplied in an unpigmented form for application as the final finish coat within the Caltech FCP waterproofing system. To achieve the required finish colour, Caltech FCP Pigment, supplied separately, must be added and thoroughly mixed into the resin on site prior to application.

The resin is cured using a Catalyst, with a low-temperature accelerator or high-temperature inhibitor used where required.

## Product Information

| Caltech FCP Unpigmented |                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product code            | FCP-RESIN                                                                                                                                                                                                                                           |
| Composition             | Unsaturated polyester resin with fillers, pigments, and additives                                                                                                                                                                                   |
| Colour                  | Unpigmented                                                                                                                                                                                                                                         |
| Packaging               | 15 litre containers                                                                                                                                                                                                                                 |
| 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. |

| Caltech FCP Pigment |                                                              |
|---------------------|--------------------------------------------------------------|
| Product code        | FCP-RESIN-PIG                                                |
| Intended use        | For pigmentation of Caltech FCP Resin in the selected colour |
| Packaging           | 0.6 kg tin                                                   |

## 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       | 3°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             | 3-9°C                                 | 10-19°C | 20-24°C | 25-30°C       |
|----------------------------|---------------------------------------|---------|---------|---------------|
| Additive                   | Add accelerator @ <4°C                |         | -       | Add inhibitor |
| Catalyst addition          | 4%                                    | 3%      | 2%      | 2%            |
| Caltech FCP-Resin (Litres) | Number of catalyst scoops to be added |         |         |               |
| 1                          | 4                                     | 3       | 2       | 2             |
| 5                          | 20                                    | 15      | 10      | 10            |
| 10                         | 40                                    | 30      | 20      | 20            |
| 15                         | 60                                    | 45      | 30      | 30            |

| Product      | Caltech FCP Catalyst | Caltech Accelerator         | Caltech FCP Inhibitor       |
|--------------|----------------------|-----------------------------|-----------------------------|
| Product code | FCP-CATALYST         | FCP-ACCELERATOR             | FCP-INHIBITOR               |
| Packaging    | 1 kg                 | 600g (1 tin/15 litre resin) | 210g (1 tin/15 litre resin) |

### Mixing

1. Mix the Caltech FCP Resin thoroughly in the original container – mixing from top to bottom.
2. Add the pigment to the resin and mix thoroughly until a uniform colour is achieved. For lighter shades, add 1 tin of pigment per 15 litres of resin. For darker shades, up to 2 tins of pigment may be required per 15 litres to achieve the desired colour.
3. Ensure additives are used as specified in the table. One tin of accelerator or inhibitor is required for each 15-litre container.
4. Use the temperature guide to determine the quantity of catalyst required.
5. 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.

### **Substrate Preparation**

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

If the Caltech FCP waterproofing system is contaminated or left for over 48 hours, clean and wipe with Eurorof Solvent before applying Caltech FCP Unpigmented resin.

### **Application**

Prior to application, ensure all preparation is complete.

Once thoroughly mixed, using a short to medium piled roller, apply a finish coat of catalysed product by roller at a minimum coverage rate of 0.5 ltr/m<sup>2</sup>.

In the event of rainfall, stop work immediately and do not recommence until the surface is completely dry. If rainfall occurs during curing, surface pitting may result; where necessary, affected areas should be topped up for aesthetic purposes.

Rain resistant: 10 - 20 minutes.

### **Additional Information**

Coverage rates provided are indicative only.

Grit, salt, or other de-icing agents must not be used between layers 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.

### **Health & Safety**

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