

Flexitec Summer Inhibitor – Technical Datasheet

Before working with Restec Accelerators it is vital to read and understand these safety instructions and the associated Safety Data Sheet. Most importantly the inhibitor must be thoroughly mixed into the resin before Powder Hardener is added.

Introduction

Flexitec Summer Inhibitor extends the pot-life of the Flexitec Resin which is invaluable when temperatures are high during the summer months. The Flexitec Summer Inhibitor can be added to Flexitec Resin on site prior to use. It should only be added as temperature ranges permit. IMPORTANT: Flexitec Summer Inhibitor is not designed as a replacement for the powder hardener. After the Flexitec Summer Inhibitor has been added, you will still need to add the powder hardener (at the minimum rate of 2%) before you use the product.

- **Product Code:** 162013
- **Weight:** 105g
- **Additive Rate:** 1 pot of Summer Inhibitor per 10kg of Flexitec Resin

Why an Additive?

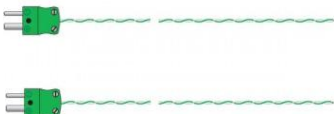
Flexitec Summer Inhibitor is delivered in the form of an additive for on-site addition. It is not put in to the resin in the factory because its use is optional and generally only needed in particularly warm conditions.

Temperature

Flexitec Summer Inhibitor is generally used in hot conditions, but it may be used for convenience when the resin, deck and air temperature is 15°C and above to provide extra working time at the lower powder hardener limit. To use this product, you must have accurate measuring equipment as detailed in the section below. This equipment can be supplied by Restec Ltd.

Surface Temperature – Surfaces should be between 15°C and 40°C. To measure this, you will require a good quality thermometer capable of reading surface temperature of the deck (this is critical as this could be several degrees different to air temperature).

Resin Temperature – The resin in which you will be adding Flexitec Summer Inhibitor should not be overly warm. To measure this you will require a good quality probe thermometer. Ideally, if possible the resin should be kept between 15°C and 25°C prior to use. This may not always be possible but you should try and avoid storing the resin in hot conditions prior to adding Flexitec Summer Inhibitor. 30°C should be considered the absolute maximum air / resin temperature under which work should proceed.

1 x Thermal Differential Thermometer	2 x Wire Probes (for measuring Surface / Air Temperature)	1 x Penetration Probe (for measuring Resin Temperature)
		

Method

Flexitec Summer Inhibitor should only be added when temperatures permit as described on the previous page.

Add a full tin of Flexitec Summer Inhibitor top Flexitec Resin as follows:

- Add **1 pot** of Summer Inhibitor to **10kg Flexitec Resin**
- Add **2 pots** of Summer Inhibitor to **20kg Flexitec Resin**

Mix thoroughly to ensure that the Flexitec Summer Inhibitor is evenly distributed in the product. You may use a light mechanical mixer if required (EPI Mixer or similar).

Once the Flexitec Summer Inhibitor is mixed into the product you can pour into smaller quantities if required e.g. 5 or 2 litres (Sometimes useful if you are unsure how much working time you have).

If you have added the Flexitec Summer Inhibitor but you do not wish to use it right away that is not a problem. We would advise that if you keep product to one side you write on the tins "Flexitec Summer Inhibitor added". This will be a handy to know for instance if you need to use the tin on another day.

Only when you are ready to use the product should you add the powder hardener.

Powder Hardener Mixing

IMPORTANT: Flexitec Summer Inhibitor is not designed as a replacement for the powder hardener. Powder hardener should be added to the resin in the normal way. In warm / hot conditions use the minimum powder hardener permitted for the system – this is 2% (2 scoops per litre). Remember that because you have added Flexitec Summer Inhibitor in to the product there is actually slightly more product to catalyse if catalysing the full 10 kg or 20 kg container.

Cure Times

While pot life is extended noticeably, cure will develop at a very similar rate to standard Flexitec once the pot / applied material has gelled. i.e. Any overall extension of cure time should be very limited.

Using Flexitec Summer Inhibitor typically gives an additional 15-20 minutes of pot life at 15°C (and 2% powder hardener) and an additional 8-10 minutes of pot life at 25°C. **IMPORTANT:** Do not add more than a single can of Flexitec Summer Inhibitor per 10 kg of Flexitec Resin. Doing so may result in under-cure of the membrane.

Further updates and instructions may be issued at any time by Restec Technical Services.

Colour / Finish of Accelerated Product

There will be minimal colour difference between the finish of standard and Inhibited Flexitec. This is negligible when using the Flexitec Summer Inhibitor in the base coat. However, if you are using the Flexitec Summer Inhibitor in topcoat, best practise is not to use inhibited / uninhibited mixes side-by-side on a roof where the appearance is critical to the client as there may be minor differences in surface flatness or sheen. It should be noted that this will not affect the physical performance of the system in any way.

Appendix – Disposal of Flexitec Summer Inhibitor

Flexitec Summer Inhibitor is available for inclusion in Flexitec Resin. This product is classed as hazardous and when used the “empty” container would normally have to be disposed as hazardous waste. It is possible to render these containers non-hazardous and to dispose of them with the normal landfill waste.

Ensuring careful transfer of the full contents of the Flexitec Summer Inhibitor to the Flexitec at the onset will help efficient neutralisation of the residual hazardous contents at this stage.

Add Flexitec Resin to the used tin of Flexitec Summer Inhibitor such that there is approximately 25mm of product in the tin. Stir the contents thoroughly and then add powder hardener at a rate equivalent to 4% (4 scoops per litre) to harden it.

Once the product is hardened the hazard signs and warnings on the label must be obliterated and the tin may then be disposed as non-hazardous waste.

Note: Do not try to dispose of unused tins in this way. The Flexitec Summer Inhibitor product is very stable and may be retained for later use.