

SAFETRACK[®] CRACK INFILL

Crack & Fretted Joint Infill System

Description

SAFETRACK[®] Crack Infill is a HAPAS Approved* liquid, cold-applied fast curing crack infill system based on GCP Applied Technologies, previously Stirling Lloyd's, unique ESSELAC[®] advanced resin technology and extensive experience in the development of high performance reinstatement products.

SAFETRACK[®] Crack Infill is available in both High Modulus (HM) and Flexible (F) grades as defined in the BBA Crack Sealing Guideline document.

HM Grade – Suitable for the majority of applications.

F Grade – Developed for use where more movement is experienced. Please contact GCP for advice.

A major advantage of SAFETRACK[®] Crack Infill is its fast cure and overlaying times across the application temperature range. To facilitate this both SAFETRACK[®] Crack Infill (Bulk) 'HM' and 'F' grades are available in 'Standard' and 'Low Temperature (LT)' grades.

Certificate No. 10/H160, Product Sheets 2 & 6

Uses

SAFETRACK[®] Crack Infill has been developed for the filling of open cracks in asphalt and concrete substrates. The system is ideally suited for the following applications:

- Infilling cracks over 5mm
- Filling and supporting weak fretted joints in asphalt.
- Kerb sealing
- Manhole and gully repairs
- Filling cat's eyes / road stud holes
- Refreshing existing installations of SAFETRACK[®] Crack Infill to reseal and maintain performance indefinitely

Features

- First time reinstatement
- Quick, simple and economical to apply
- Cold applied – no hot trades
- Long service life – less maintenance
- Fast return to service with rapid cure and overlaying times
- Excellent mechanical interlock
- Does not deform under traffic load
- Retains skid resistance in the long term
- Extends the life of asphalt
- Can be over-coated to extend service life
- Compatible with surface dressing
- Width can be varied to suit application

Technical Data

Material / Temperature ¹	Typical Working Life	Typical Cure Time
SAFETRACK [®] CI		
25°C	5 minutes	10 minutes
20°C	7 minutes	20 minutes
15°C	10 minutes	35 minutes
10°C	13 minutes	50 minutes
SAFETRACK [®] CI LT		
15°C	7 minutes	23 minutes
10°C	10 minutes	30 minutes
5°C	13 minutes	35 minutes
0°C	15 minutes	40 minutes

Patch Pack

Supplied in 'HM', low temperature grade with application instructions in the kit for the suitability of 'HM' or 'F' grade for your project, please contact GCP.

Surface Preparation

The surface to be treated must be clean and dry. Use a stiff brush or oil free compressed air to clear the crack of all dust, standing water and loose material. Dry with a gas burner or with compressed air that is oil free and dry.

Application Equipment

There is a wide range of bespoke application equipment consisting of hand tools, hand propelled equipment and high output pumping systems available from GCP, designed to increase the speed and reduce the cost of crack infilling including:

- Draw boxes, 40mm to 200mm wide
- Trenchmaster, for slot filling
- Fillmaster, for high volume slot filling
- Fretmaster, for high output Overbanding applications
- Gripmaster, for dispersal of overscatter
- SAFETRACK[®] pumps, for use on larger projects for high outputs of material application

Application

SAFETRACK[®] Crack Infill has 2 components – a pail of resin and a bag of BPO catalyst powder.

A draw box between 40mm and 200mm is needed (dependant on the width of application). These are available from GCP.

Mixing

Ensure the job is prepared before starting the mixing operation. Stir the resin thoroughly prior to use. Whilst continuing to stir, add the BPO powder catalyst and mix thoroughly for a further 30 seconds. Scrape around the sides of the pail to ensure the catalyst is fully dispersed. This initiates the 'working life' during which time the Crack Infill must be used. Without stopping, move quickly onto applying the material.

¹ Based on ambient, material and substrate temperature all being the same. Please be advised SAFETRACK® Crack Infill can be applied outside these temperatures, please contact us for further information / advice.

Application

Pour the mixed material into the draw box as you pull it over the surface to produce an even band of material over the crack. Keep the draw box level and flat on the ground at all times.

Towards the end of the 'working life' polymerisation starts, the viscosity increases i.e. it becomes stiffer, the temperature rises and the material starts to gel. Do not try to place or work the material at this stage.

Before the Crack Infill is allowed to gel it must be completely 'blinded' with 3mm dry aggregate ensuring no bare patches of resin are visible. The aggregate should be applied in such a manner that individual particles are allowed to fall vertically onto the Crack Infill. Once cured the road may be opened to traffic.

If required, the fill and overband elements of the infill can be applied separately. Note the overband and aggregate overscatter should be carried out at the same time to ensure optimum embedment.

Coverage

SAFETRACK® Crack Infill 'HM' – 1.85kg/m²/mm

SAFETRACK® Crack Infill 'F' - 1.65kg/m²/mm

Coverage per pack will vary depending upon the size of the crack and surface texture but based on using a 40mm Draw Box and a depth of 3mm it is typically 35 linear metres per patch pack and 110 linear metres per 25.25kg kit.

Aggregate Overscatter is typically 4kg/m²

Maintenance

As SAFETRACK® Crack Infill is trafficked the aggregate overscatter is eventually removed to expose the premixed aggregate that provides the intrinsic skid resistance throughout the whole life of the material. The skid resistance values as assessed within the HAPAS Guidelines will be maintained. If a repair is required (also see next Section), fresh SAFETRACK® Crack Infill is quickly and easily applied to the existing material, irrespective of the time since the previous installation, enabling the integrity and performance of the installed material to be maintained indefinitely.

Repair

If SAFETRACK® Crack Infill is damaged it can be quickly and easily repaired by removing any loose or damaged material, trimming back to sound material and re-applying fresh material. The exposed ends of the material do not need any special treatment as they will be sealed as the SAFETRACK® Crack Infill bonds to itself.

Colour

Asphalt Grey and Neutral (buff)

Cleaning

All tools and equipment should be cleaned with Acetone before the material is allowed to cure.

Packaging & Storage

Bulk Packs

SAFETRACK® Crack Infill 'HM': 25.25kg pack (inc. 250g of BPO)

SAFETRACK® Crack Infill 'F': 25.6kg pack (inc. 600g of BPO)

Aggregate Overscatter – 25kg bag (sold separately to kit)

Patch Packs

SAFETRACK® Crack Infill Patch Pack is supplied in a single container with all the necessary materials to apply the product.

All components should be stored in cool, dry, protected conditions, out of direct sunlight and in accordance with the relevant site Health & Safety regulations. Storage temperature must not exceed 25°C. Do not store near naked flames or foodstuffs.

Stored in unopened containers, under the correct conditions, the components have a minimum shelf life of twelve months. If your product is more than twelve months old you must contact GCP before use.

Health & Safety

Please refer to our safety datasheets for further information.

General Information

SAFETRACK® Crack Infill is part of a wide range of specialist highway maintenance, waterproofing, surfacing and repair materials manufactured and supplied by GCP. If you require any further information on this or any other of our products, please contact us or visit our website www.gcpat.com

gcpat.com | Technical Services, Manchester, UK (+44 (0) 1565 633111)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the end user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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Last Updated: 2021-08-31



Certificate Number 15174
ISO 9001, ISO 14001

