

TOUGH GRIP

Preformed anti-skid repair sheets



Designed for the repairing of anti-skid surfaces.

- Available in 5 colours: Black, Green, Red, Buff and Grey.
- Quick, easy and economical to apply
- Specially designed to incorporate a patented system.
- Enhanced anti-skid performance for application across various asphalt surfaces.
- Hardens within 10 minutes keeping labour costs and closures to a minimum.

Technical Information

UltraCrete Tough Grip is a premium thermoplastic road marking product with enhanced anti-skid properties for the application on various slippery asphalt surfaces. UltraCrete Tough Grip has been designed with a patented system allowing ease of application and visible indicators which close when the sheets has completely melted.

Product Description

Alkyd based preformed thermoplastic material with temperature indicators that have a thickness of 2.0 mm (+0.4/ -0.3) with surface material of glass grains. The material consists of:

Approx. 20% binding agent
Approx. 30% white filler
Approx. 50% white sand

System Recommendation

The material is recommended for Non-reflective - high skid road markings and other asphalt surfaces.

Application and Equipment Recommendations

Using a suitable gas lantern, heat the sheets to a temperature of 200C-230C until all indicators have closed. To test adhesion we recommend a chisel test be done.

Application

1. Clean the application area by removing all dust, sand, dirt and oily substances. The surface is cleaned using a stiff broom. A forced or compressed air system can also be used.

2. Remove all moisture from the application area using a heat torch.

3. Position UltraCrete Tough Grip correctly on the surface, with the beaded and skid resistant topcoat facing up. Make sure the individual pieces are positioned correctly with no gaps between them. When applying road markings made up of more than one piece, the top layer packed in the box corresponds to the bottom right part of the marking. NOTE: if several layers are required (e.g. rumble bars), each layer is applied separately.

3a. Only relevant when applying UltraCrete Tough Grip Easy: The product consists of preformed thermoplastic pieces assembled and pre-glued at the factory. Handle the material with care. Do not lift an entire pattern segment (usually 0,6x1,0 m) by holding on to a small individual piece of the pattern only. Hold on to the largest piece or pieces going throughout the pattern. Each pattern segment is supplied on a cardboard. The material should be handled on the cardboard until it is close to its final position.

4. Heat UltraCrete Tough Grip evenly with a propane heat torch fitted with a pressure regulator of at least 3 bar. For a successful application and in order to apply sufficient heating power, the use of gas bottles sized 10 kg or bigger is recommended. In addition, frost may appear on the propane gas bottle during application, causing a drop in heating power.

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This is a normal phenomenon. It is therefore essential to change this bottle. You can use it again once it has de-frosted. Move the flame slowly but steadily 10 to 30 cm (depending on heat torch) over the material in a sweeping motion so that heat is evenly applied on the entire surface. UltraCrete Tough Grip must be heated until the material is completely melted and liquid (approx. 200°C).

5. Sufficient heat has been applied when the following details are evident on the entire covered surface:

- All heat indicator indents have closed and are no longer visible. NOTE: Heat indicator indents are 2 cm long scores systematically placed on the topside of the Tough Grip material.
- The product is liquid and starts to bubble.
- The product colour becomes slightly darker.
- The product edges are completely melted.
- The individual pieces have fused together into one segment.

6. Applying insufficient heat on Tough Grip will result in inadequate surface bonding and application failure. If the product is overheated, superficial surface browning may occur. However, this discolouring will soon disappear once markings are exposed to traffic and weather. NOTE: Heat the product gradually, keeping your heat torch at a safe distance (see step 4) and using a regular, consistent movement. NOTE: Colours react differently to the torch flame when heated, some rising in temperature more quickly than others. It is therefore advisable to adapt the duration of flame exposure according to these reactions. During the heating process, certain colours such as red will experience blotching (e.g. yellow spots for UltraCrete Tough Grip red). This is normal and does not damage the product. If the product is overheated, organic pigments can suddenly change colour irreversibly. For Easy products, the assembly adhesive might also rise to the surface.

7. During application with a blow torch, factory-made micro-beads and anti-skid material will mostly sink into the thermoplastic material. This leads to lower retroreflection and skid resistant (SRT) baseline values. If high retroreflection and skid resistance are required at baseline, a drop-on mixture of glass beads and anti-skid material may be applied immediately after application completion while the thermoplastic product is still hot. During manufacturing, UCme micro-beads and anti-skid material are also incorporated into UltraCrete Tough Grip preformed strips. These premix products ensure high retroreflection and skid resistance throughout the product's lifetime.

8. UltraCrete Tough Grip cools down and harden within 5-10 minutes of application depending on air temperature. If needed, the cooling time can be speeded up by spraying cool water or a drop-on mixture of glass beads/anti-skid material on markings

9. When UltraCrete Tough Grip has cooled down to near ambient temperature, inspect for correct application by trying to lift parts of the material from the surface using a knife or chisel. This test should be carried out on the edges and by making "V-shaped" cuts in the middle of

markings. If material can be lifted without evidence of asphalt on the underside, insufficient heat has been applied (simply reapply heat on Tough Grip until adequate bonding has occurred) or moisture extraction remained uncontrolled: remove UltraCrete Tough Grip and repeat application from step 2. NOTE: Do not leave the site until sufficient bonding has been achieved and observed. Attempts to reheat markings at a later date will be unsuccessful due to trapped moisture beneath the product.

Set-Up Time/Hardening Time

10 minutes at a surface temperature of 20°C and a light breeze.

Packaging

Flat packed in 500 mm x 500 mm boxes that protect against sunlight and moisture.

Storage, handling and safety

Store flat, keep dry and away from sunlight and avoid temperatures below 2°C and above 32°C. Do not stock more than 25 boxes.

Points of Note

- Tough Grip **must** be kept dry at all times - in storage, in transit and on the job.
- Tough Grip **must** be stored between 2°C and 32°C.
- Tough Grip **must** be stored flat and stacked at a max of 25 boxes.
- Tough Grip **must** be handled with care, especially in temperatures below 10°C as the sheets will be brittle.
- Protective clothing **must** be worn and no synthetic fabrics should be worn when applying Tough Grip.
- The surface **must** be dry and all moisture should be removed with the gas lantern.
- The surface **must** be horizontal with a maximum slope of 5%.
- Tough Grip can be cut using a knife to score the material and carefully break along the score. In warm weather, scissors can be used.

Shelf Life

Shelf life in correct conditions is 24 months.

Environment and health

Contains none of the substance which is either on the Candidate List of substances of very high concern, or recommended for inclusion in Annex XIV or Annex XIV / XVII under REACH regulation (EC 1207/2006). For further information, please refer to the Tough Grip SDS which can be found at www.instarmac.co.uk.

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