

# SURFACE DEFECT REPAIR

Heat Applied Surface Defect Repair System

**ULTRA  
CRETE**

Cold Lay Asphalt Concretes



A surface defect repair system developed to address specific areas of preventative maintenance.

- Helps prevent potholes forming
- Durable
- Easy to use
- No waste

## Information

SURFACE DEFECT REPAIR is a specially designed thermoplastic surface defect repair system for repairing footways and carriageways. It is suited to roads which are structurally sound and where defects are confined to the surface layer/s which remain fully bonded to the road base. It is ideal for use on non-porous bituminous surfaces.

## Technical

Supplied in a pack comprising: 12 kg of UltraCrete SURFACE DEFECT REPAIR thermoplastic pellets and 1 kg of anti-skid aggregate, each packed separately. This system is suitable for defects from 5-40mm wide with a maximum depth of 45mm. When used for shallow surface repairs the maximum size should be 200 x 200mm x 15mm depth. Once installed it has a skid resistance value of 60 (SRV).

## Preparation

If the product becomes slightly compacted please loosen before use. Always ensure the area to be treated is prepared by ensuring it is free from oil contamination and chemicals (such as road salt or de-icers) which will impair the bond of the system to the road. These contaminants should be fully washed away. Use a stiff brush to remove dirt, standing water and loose debris. Alternatively, oil-free compressed air or a petrol driven or blower can be used providing all necessary safety precautions are observed.

Remove all moisture from the area using a propane gas burner with fitted lance until fully dry. Immediately before commencing application, pre-heat the area again using the gas burner.

## Application

If SURFACE DEFECT REPAIR is compacted, the bags can be lightly massaged or rolled on the ground in order to separate the chips/pellets.

Fill in a layer of SURFACE DEFECT REPAIR to a maximum depth of 10mm and heat the material on a medium to high heat until completely molten and in a fluid like state. The material will follow the contours of the space. Some discolouration and smoking of the material may occur. Keep the flame at a distance of 20-40cm to the surface of the material.

If the depth of the cavity exceeds 10mm, further layers of 10mm maximum can be added and heated as per instruction. Make sure all materials are in a liquid state and that all gaps have been filled. Continue to add layers (max 10mm) until the cavity is filled.

To provide initial skid resistance and to avoid ghost marking, post sprinkle with a small quantity of aggregate, whilst the Surface Defect Repair remains hot and soft.

Once cool, check with a gloved hand, that the surface is firm before opening up the road to the traffic. Also check that the anti-skid aggregate is firmly bonded to the material. If the aggregate remains loose, additional light heating will help bed the aggregate. Test to check adhesion of the aggregate.

For accelerated cooling, water may be sprayed onto the surface. Re-opening of the road traffic can occur within 10-20 minutes, depending on depth/air temperature.

### Precautions

When the weather is warmer and the road temperatures are higher, the setting time for the material may be slightly longer. Do not use SURFACE DEFECT REPAIR when it is raining or snowing. On structurally sound road bases where defects are confined to the surfacing layer (or layers) which remain fully bonded to the road base, the 3 year minimum service life should be achieved and exceeded (however this may be affected by the service life of the asphalt on to which it is being applied). Where defects have penetrated substantially through road depth due to structural failure, resulting in movement under traffic, an accurate expectation of life for the system cannot be predicted. Additionally, defects repaired in wheel track zones subject to severe wear, primarily from heavy goods vehicles, may be expected not to exceed the minimum life.

### Hot products only

Avoid skin contact with hot product. In case of contact with skin, immediately immerse in or flush area with water. Do not remove product from area and then seek medical advice. In case of contact with eyes rinse with plenty of water and seek medical assistance.

### Storage

Store in sealed container, in a cool and dry place. Do not expose to UV rays as materials will become hard. To ensure material does not become brittle prior to using on site, it is advisable to keep it in the footwell of a vehicle when on-site.

### Shelf life

Shelf life for Surface Defect Repair is indefinite. It will not deteriorate when stored in dry conditions and at temperatures between 5°C and 30°C. However, you can avoid compaction within the bag by ensuring pallets are not double stacked.

### Health, Safety and Environmental

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from [instarmac.co.uk](http://instarmac.co.uk)

### Quality assurance

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001, 14001, and OHSAS 18001. Our products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request.

### Technical data

Colour	black
Coverage	63lm per 13 kg unit, based on a 40mm wide x 3mm deep defect
Unit/packaging	12kg of thermoplastic pellets and 1 kg of anti-skid aggregate

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