

metaset[®] epm

EMERGENCY PATCH MATERIAL – HIGHWAYS AGENCY APPROVED

PRODUCT DESCRIPTION

Metaset EPM is a rapid curing patching material. It achieves high early strength and offers flexibility, low shrinkage and good skid resistance.

Metaset EPM is supplied in kit form complete with simple application instructions enabling installation without prior instruction or training.

USES

Metaset EPM has been designed to meet the UK Highways Agency (HA) requirement for an emergency patch system for asphalt and concrete road surfaces. Approved by the HA, the system enables the road to be re-opened to traffic in the shortest possible time following an incident.

Metaset EPM is fully compliant with, and is listed in, the Highways Agency Interim Advice Note 90/07, dated 30/4/07 – Guidance For The Use of Emergency Patching Materials*.

Metaset EPM can be used to repair asphalt or concrete road surfaces damaged by any of the following:

- Fire
- Fuel spillage
- Local collapses
- Deformation around ironwork
- Fretting
- Rutting
- Mechanical damage

FEATURES

- Rapid cure – less than 30 minutes; ready for mechanical loading
- Wide application temperature range
- Single grade suitable for year round application
- Impact & shock resistant
- Good retention of surface aggregates
- Texture depth of 1.5mm
- Simple to use
- Non-toxic
- Pigmented to blend in with the substrate
- Impermeable and resistant to most common chemicals, fuels & oils

TECHNICAL DATA

PROPERTY	VALUE
Application Temperature Range ⁽¹⁾	0 to 30°C
Typical Working Life	
30°C	
20°C	4 minutes
10°C (with use of "turbo boost")	5 minutes
0°C (with use of "turbo boost")	7 minutes
	15 minutes

¹ For temperatures outside of this range modifications can be made to the product to enable full cure. Please contact our Customer Services for further details.

Cure / Drive On Time

30°C	10 minutes
20°C	12 minutes
10°C (with use of "turbo boost")	15 minutes
0°C (with use of "turbo boost")	30 minutes

Skid Resistance (TRL Pendulum)

SRV > 55

SURFACE PREPARATION

It should be stressed that the success of any repair system is dependent on the thoroughness of the surface preparation. Metaset EPM has been designed to be used after the minimum of surface preparation in accordance with Highway Agency requirements, but the more thorough the preparation, the longer the service life that will be achieved.

The objective of the surface preparation is to reduce the presence of water, contaminants, dust and loose material in the damaged road surface. A thorough sweeping with a stiff broom is recommended as the minimum level of surface preparation. Any standing water in the repair area must also be removed.

APPLICATION

Metaset EPM is supplied in kit form, designed for whole pack mixing (including a turbo boost pack for optional use).

Mixing & Placing

This is a rapid curing product, so ensure that mixing takes place immediately adjacent to the area to be repaired and that the surface preparation is complete before starting. Once started, mixing and placing should be one continuous process – do not stop otherwise the product will cure in the bucket.

Take all of the contents out of the bucket, making sure you also have the mixing stick to hand. Put on the gloves supplied (the materials are non-toxic, but it is good site practice to keep resin products off your skin).

Pour the resin component into the bucket. Ensure the resin is drained thoroughly. If working below 10°C or if a very fast return to service is required, empty the contents of the turbo boost pack into the resin and mix in with a stick until it is fully dissolved (mix for approximately 30 seconds).

Note: Use of the turbo boost pack is optional. It will enable a faster cure at low temperatures. We do not recommend its use above 15°C as the working life will be very short.

Without stopping add the fillers and continue to stir until all they are wetted out and no dry powder remains. The whole mixing operation should only take around 1 minute. You should have a smooth homogenous mix with no streaks.

Immediately pour the mixed material into the surface to be repaired and using the mixing stick like a screed bar, level off the material across the damaged surface.

With the patching material in place and level, immediately drop the overscatter aggregate onto the surface. This should be dropped vertically by hand and evenly distributed over the repair so that the whole of the surface of the repair is covered.

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Allow the material to fully cure. Once cured, use a stiff broom to sweep off any excess aggregate from the repair and off the road.

The result will be a hard, skid resistant repair free from loose aggregate.

COLOURS

Metaset EPM is supplied in asphalt grey as standard.

COVERAGE

Metaset EPM* 2.1 kg/m²/mm

**Patching Material without aggregate overscatter*

PACKAGING & STORAGE

Metaset EPM is supplied as a 20kg kit in a sealed bucket consisting of:

Resin - 2.15kg
Fillers – 12.85kg
“Turbo Boost” – 45g
3mm Aggregate Overscatter – 5kg

A mixing / levelling stick is also supplied with each kit – though it is not contained within the bucket.

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

The fillers and aggregates used with the system must be kept dry.

Stored under these conditions in unopened containers this product has a shelf life of twelve months.

HEALTH & SAFETY

The Material Safety Data Sheet must be read, understood and available on site before commencing work.

The empty packaging should be disposed of in accordance with local authority guidelines.

It is the Company's policy to take all reasonable steps to prevent injury to all property and personnel from foreseeable hazards. This extends to the public in so far as they come into contact with the Company or its products.

GENERAL INFORMATION

Metaset EPM is part of a wide range of specialist waterproofing, surfacing and repair materials manufactured and supplied by Stirling Lloyd. If you require any further information on this or any other of our products, please contact our Customer Service Department or visit www.stirlinglloyd.com.



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