



SEALOCRETE PLA LTD Greenfield Lane
Rochdale OL11 2LD Tel: 01706 352255, Fax 01706 860880

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TECHNICAL DATA SHEET TDS010
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EPOXYPATCH HEAVY DUTY

DESCRIPTION

EPOXYPATCH HEAVY DUTY is a complete 3 pack epoxy resin based mortar for durable and chemical resistant horizontal repairs.

USES

EPOXYPATCH HEAVY DUTY is recommended for concrete repairs on pavements, airfields, motorways, hard standings, factory floors and joint nosings. It is suitable for a bearing pad mortar for machinery and stanchions.

ADVANTAGES

- * **GOOD WORKABILITY**
Quick and easy to apply to a high standard of finish.
- * **GOOD ADHESION**
Strong adhesion to steel, concrete and rock.
- * **DURABILITY**
High chemical, impact and abrasion resistance.
- * **HIGH STRENGTH**
Will withstand high static and dynamic loading.

USAGE

Coverage: 0.9m² per 10kg pack at 5mm thick.

(EPOXY GP PRIMER: 3.5 – 5 m² / litre)

TECHNICAL DATA

Appearance:	Grey trowellable mortar.
Mixed Density:	2100kg/m ³
Application Thickness:	Minimum: 5mm Maximum: 100mm
Compressive Strength: (BS6319 Part 2) @ 20°C	10°C 20°C 24hrs 2 13 48hrs 10 25 3 days 27 44 7 days 55 65
Flexural Strength: (to BS6319 Part 3)	20N/mm ² : 7 days@ 20°C
Tensile Strength: (to BS6319 Part 7)	15N/mm ² : 7 days@ 20°C
Recommended Application Temperature (DO NOT APPLY BELOW 4°C)	+4 to +30°C
Service Temperature:	-20 to +55°C
Open Work Time at 20°C:	40 minutes at 20°C
Initial Cure: Light Trafficking: Full Cure:	12 hours 48 hours 7 days.
Adhesion to Concrete	When fully cured the bond strength exceeds the tensile strength of concrete.

PACKAGING

EPOXYPATCH HEAVY DUTY is available in 10kg and 25kg packs, each pack consisting of three separate containers. Pack A and Pack B are located with the aggregate in an outer container (10 kg) and wrapped together with a separate sack (25 kg).

EPOXY GP PRIMER is available in 500ml, 1 litre and 5 litre packs, each pack consisting of two separate containers - Pack A and Pack B.

CHEMICAL RESISTANCE

	24 hrs	48 hrs	7 days	14 days
Hydrochloric Acid 10%	U	U	U	U
Nitric Acid 10%	U	U	LA	LA
Sulphuric Acid 10%	U	U	LA	A
Acetic Acid 5%	U	U	U	LA
Citric Acid 5%	U	U	U	LA
Lactic Acid 5%	U	U	U	LA
Ammonium Hydroxide 5%	U	U	U	U
Ammonium Hydroxide 30%	U	U	U	U
Sodium Hydroxide 30%	U	U	U	U
Bleach Solution 5%	U	U	U	U
Brine 10%	U	U	U	U
Sugar Solution 10%	U	U	U	U
Detergents	U	U	U	U
Hydraulic Fluids	U	U	U	LA
ISO Propyl Alcohol	U	U	U	U
Linseed Oil	U	U	U	U
Lemonade Concentrate	U	U	U	U
Petrol and Jet Fuels	U	U	U	U

KEY: U Unaffected D Discoloured
A Attacked L Slightly

All specimens were fully immersed for the duration of the test. Tests were carried out under controlled laboratory conditions and are for guidance only. For details regarding resistance to chemicals other than those listed, contact the Technical Services Department.

NB:

- In all cases of chemical spillage it is essential that the spillage be removed as quickly as possible and the surface washed down with water.

METHOD OF USE

Surface Preparation

Correct preparation is essential for the successful application of EPOXYPATCH HEAVY DUTY.

Concrete:

Must be sound and free from all traces of laitance, oil and grease. Surfaces should be scarified to present a good mechanical key and allow penetration of EPOXY GP PRIMER.

Suitable methods of scarifying include scabbling, planing, shot blasting and hot compressed air techniques. When used for patch repairs, saw or chisel into the substrate at the edges of the repair area to a minimum depth of 5mm to eliminate the need to feather edge. Substrates saturated by oil and grease from previous usage present a particular problem and should be given special treatment such as HCA followed by degreasing.

Steel:

Remove all loose scale and rust, preferably by grit blasting, grinding or with a needle gun back to a bright metal finish, and clean down. Remove grease etc, with a suitable solvent. The primer should be applied immediately.

PRIMING

After preparation and before application of EPOXYPATCH HEAVY DUTY a priming coat of EPOXY GP PRIMER should be brushed well into the surface.

The primer is supplied in two tins marked A and B. These must be thoroughly mixed together and applied by brush as soon as possible after mixing. Pot life is approximately ½ hour depending on temperature, but treated surfaces will remain tacky for approximately one hour depending on temperature.

MIXING

All mixing must be carried out using a forced action pan mixer. Pack A should be stirred initially to redisperse any settled pigment. Empty Pack A and Pack B into mixer whilst mixer is running. Continue mixing for 1-2 minutes.

Add the aggregate in small portions. Continue mixing until a completely homogeneous mortar is obtained. Mix for 3 to 5 minutes. DO NOT OVERMIX or add any other aggregate.

Suitable mixers are manufactured by Refina, Cretangle or Pennine.

APPLICATION

EPOXYPATCH HEAVY DUTY is applied to a minimum thickness of 5mm, whilst the primer is still tacky. Spread and compact to the required thickness using a steel float or trowel to close up the surface.

When fully cured after about 7 days, cleaning may be carried out using detergent solutions, but not steam cleaning.

The steel trowel should be kept clean during application by regular wiping with a cloth containing THINNERS No. 3.

A consistent method of application will avoid colour variations between mixes.

Where joints are involved, these should be constructed as per standard practice. Do not bridge saw cuts or expansion joints with a patch repair.

In cold weather, application will be assisted by storing the product in a warm area prior to use.

CLEANING OF TOOLS

Immediately after use all tools and mixing equipment should be cleaned with THINNERS NO. 3.

STORAGE

EPOXYPATCH HEAVY DUTY must be stored in cool, dry conditions away from moisture or direct sunlight. This product will have a twelve month shelf life when stored in these conditions in original unopened containers.

HANDLING

EPOXYPATCH HEAVY DUTY contains liquid epoxy resin and a polyamine compound. Wear suitable gloves and eye/face protection. Please refer to the relevant Health and Safety Data Sheet for detailed information regarding the handling of this product.

We endeavour to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly, no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety information.

