



MAXROAD[®]

EXPRESS

CEMENT BASE, VERY FAST SETTING REPAIR MATERIAL FOR IMMEDIATE REPAIR OF CONCRETE PAVEMENTS IN SMALL OR LARGE VOLUMES

DESCRIPTION

A cement-base, fast-setting patching material, that develops high compressive strengths and will allow heavy traffic bearing patches to be put back in service very soon from time of placement.

USES

- Urgent repairs of concrete pavements subject to traffic that require immediate placement into service, such as:
 - Concrete airport runways, whether damaged by wear or with bomb crater damage.
 - Bridge decks.
 - Ramps and access to industrial buildings, etc.
- \$ As pure product for small volume patches.
- \$ As binder, adding sand and gravel up to 50% by weight for repairs upto 2m3.

ADVANTAGES

- Very fast setting.
- High mechanical strengths.
- Good adherence.
- Can be applied to damp surfaces.
- Traffic bearing at 30°C after 1 hour approximately.
- Freeze-thaw resistant.
- Contains no chlorides.
- Easy to apply.
- Product of a single component.

APPLICATION INSTRUCTIONS

Surface preparation. Surfaces to be patched must be clean, structurally resistant and free of all dirt, oil, etc., before applying MAXROAD EXPRESS. Do not feather edge patches, either cut using a circular saw or chip to a minimum depth of 3 cm around the edge of the patch.

Mixing of the pure product. Thoroughly mix the product in the ratio of approximately 13% to 14% of clean water (3.25 to 3.5 litres of water for each 25 Kg. of MAXROAD EXPRESS, when using the pure product. Mix until the product has achieved mortar consistency (2 minutes if blending by hand or 1 minute using a mechanical mean).

Application of the pure product. Before applying MAXROAD EXPRESS, dampen the surface to be treated. Then apply it with its normal consistency, forcing the material against the sides and bottom of the patch area. Levelling can be done by trowel or straight edge. Avoid creating cracks to the material if setting has already begun. As final finish, the trowel can be used for a smooth surface, or the brush or texture roller for a non-slip textured surface.

Once the material has lost its superficial shine, curing can be performed, whether by applying a specific curing compound such as MAXCURE or for better curing, dampen the material for at least one hour after placing.

Application of material as binder for large volume filling (Up to 2m3) When filling a large volume such as a bomb crater in a runway or deep patch (over 1 to 2 mts. deep), remaining rubble can be used as filler and compacted using a vibrating roller or similar equipment, leaving a maximum depth of about 30 cm.

In order to have a homogeneous repair, suitable mixing equipment should be available so a continuous production of material is available, such as a concrete mixer.

For patches with a depth of 5 to 10 cm.

For patches from 5 to 10 cm add to 25 Kg. of MAXROAD EXPRESS, up to 25 kg. of dry, clean stone or gravel aggregate, from 3 to 10 mm in diameter of continuous aggregate size. Mix the dry aggregates and MAXROAD EXPRESS before adding the water. The amount of water can be increased up to 18 % or 4.5 litres per 50 kg. of material mix, until the material begins to have a workable texture.

For patches in excess of 10 cm. up to 30 cm.

For patches from 10 to 30 cm. add to 25 kg. of MAXROAD EXPRESS, up to 25 kg. of dry, clean stone or gravel aggregate, from 3 to 25 mm of continuous aggregate size. Mix the dry aggregates and MAXROAD EXPRESS before adding the water. The amount of water can be increased up to 18 % or 4.5 litres per 50 kg. of material mix, until the material begins to have a workable texture.

PRODUCT CONSUMPTION

1 Kg. of pure MAXROAD EXPRESS fills 500 cm³

1 Kg. of MAXROAD EXPRESS with 50% aggregate, 3 to 10 mm in diameter, for patches 5 to 10 cm. fills approximately 800 cm³.

1 kg. of MAXROAD EXPRESS with 50% aggregate, 3 to 25 mm in diameter, for patches 10 to 30 cm. fills approximately 900 cm³.

CAUTIONS

Temperature: Do not apply on frozen or frost covered surfaces or if the temperatures are below 5° C.

Setting time: In order to obtain a surface suitable to be opened to traffic after only one hour, the speed of setting can be regulated using the temperature of the water. In order to accelerate the setting in cold temperatures heat the water to a lukewarm temperature. (25°C).

When applying at temperatures above 35 °C, keep the material and the water in the shade in order to have sufficient open time for placing.

There is also an acceleration of the setting time, the larger the volume of the repair, due to the exothermic reaction of cement hydration.

MAXROAD EXPRESS is not suitable to repair asphalt pavements.

Manipulation: MAXROAD EXPRESS is not toxic, but it is an abrasive compound. When it is applied, must be taken into account to wear protective rubber gloves and glasses. In case one of the components comes in contact with skin, rinse thoroughly with soap and water, but not rub. Seek Medical attention if irritation continues.

PACKAGING

25 Kg. drums.

STORAGE

Eighteen months in drums in its original unopened containers, in a dry place at temperatures above 4°C.

TECHNICAL DATA

Values for material without aggregate addition	
Mixing water, % :	15.0 ± 0,5
Density in powder Kg/m ³	1,220 ± 50
Density of hardened material, Kg/m ³ :	2,040 ± 50
Pot life (minutes)	50
Levelling of fresh material	Good
Levelling after 30 minutes	A little
Setting minutes: Initial Final :	60 105
Compressive strength (Kg/cm2) 2.5 hours 3 hours 4 hours 8 hours 24 hours 28 days	101 163 210 270 304 520
Flexural strength (Kg/cm2) 2.5 hours 4 hours 24 hours 28 days	22 31 50 75
Chlorides (Cl), %	None

Tests performed at 18°C and 13.5% of mixing water.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product.



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