



## CEMENT-BASE, FAST-SETTING PATCHING MATERIAL FOR CONCRETE BRIDGE DECKS, EXPRESSWAYS

### Description

A cement-base, fast-setting patching material that develops high compressive strengths and will allow traffic bearing patches to be put back in service after 2 hours from time of placement.

### Uses

- Urgent repairs in concrete pavements subject to permanent traffic.

### Advantages

- Good adherence.
- Can be applied to damp surfaces.
- Traffic bearing 2 hours approximately.
- Fast-setting.
- Freeze-thaw resistant.
- Contains no chlorides.
- Easy to apply.
- Product of an only component.

### Instructions

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

#### Mixing.

Thoroughly mix the product in the ratio, of approximately 4 - 4,5 litres of water to 25 Kg. of **MAXROAD**. Mix until the product has achieved mortar consistency (2 minutes if blending by hand or 1 minute using a mechanical mean).

To improve adherence use in the mixing a mixture of 2 parts of **MAXCRYL** to 1 part of water instead of use only water. The incorporation in its mixing of a fibre-glass improves the mechanical resistances to compression, flexion, impact and wear.

For patches with a depth of 3 - 5 cm, use the pure product without adding gravel. For patches in excess of 5 cm add to 25 Kg. of **MAXROAD** 8 Kg. of 10 mm dry, clean aggregate, stone or gravel.

#### Application.

Before applying **MAXROAD**, wet the surface to be treated and apply a slurry coat of **MAXROAD**. Then apply it with its normal consistency, forcing the material against the sides and bottom of the patch area. Leveling can be done by trowel or other procedures.

### Product Requirement

1 Kg. fills approximately 620 cm<sup>3</sup>

### Packaging

25 Kg. bags and drums.

### Storage

In bags and in a dry place, one year; in drums, 18-24 months

### Caution

#### Temperature.

Do not apply on frozen or frost-filled surfaces or if the temperatures are below 5° C.

#### Manipulation.

**MAXROAD** is abrasive and protective rubber gloves must be used to prepare the mixture and apply it. If any of the mixture gets into the eyes, rinse thoroughly with clean water, but do not rub. If irritation continues, consult a doctor.

## Test Data

AGE	Mechanical Resistances (Kp/cm <sup>2</sup> )	
	Flexotraction	Compression
2 hours	15	47
4 hours	19	73
1 day	28	105
7 days	55	404
28 days	89	428
After 20 freeze-thaw cycles	73	525

Mixing water, % :	15,0 ± 0,5
Density in powder Kg/m <sup>3</sup> :	1.220 ± 50
Density of hardened material, Kg/m <sup>3</sup> :	2.040 ± 50
Adherence (over concrete surface), Kp/cm <sup>2</sup> :	18,0
Dimensional stability, mm/m :	—0,006
Set, minutes	
Initial :	15
Final :	25
Appearance of the tubes after the testing of freze-thaw cycles :	without physical change
Chlorides (cl), % :	None

Tests performed by **I.E.T.C.C.**, december/92.

Eduardo Torroja Institute for the Construction and Cement.

**I.E.T.C.C.** is Member of European Union for Construction Technical Agreement.

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