



# MAXROAD<sup>®</sup>

## CEMENT BASE, FAST SETTING PATCHING MATERIAL FOR URGENT REPAIR OF CONCRETE BRIDGE DECKS, EXPRESSWAYS AND INDUSTRIAL PAVEMENTS

### DESCRIPTION

A cement-base, fast-setting patching material, reinforced with fibres, 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 of concrete pavements subject to permanent traffic.

### ADVANTAGES

- High mechanical strengths.
- 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 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. 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 4.0 – 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 a mixture of 2 parts of MAXCRYL to 1 part of water instead of using only water.

The incorporation in its formulation of fibres 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.

#### **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. Levelling can be done by trowel or other procedures. 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. For better curing, dampen the material.

## PRODUCT REQUIREMENT

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

## CAUTIONS

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

**Manipulation:** MAXROAD 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. bags and drums.

## STORAGE

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

## TEST DATA

AGE	Mechanical resistance (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

## TECHNICAL DATA

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 freeze-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.

## GUARANTEE

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