



# MAXPATCH<sup>®</sup>-M

## ONE-COMPONENT RESTORATION MORTAR FOR INDUSTRIAL CONCRETE PAVING IN MINIMUM THICKNESS

### DESCRIPTION

**MAXPATCH<sup>®</sup>-M** is a one-component mortar based on special cements, well-graded aggregates and additives. Once mixed, provide an advanced mortar with high performance and mechanical properties (adhesion, abrasion resistance and compressive strength) suitable for restoration and patching of horizontal concrete floors, ramps, steps, etc, subject to pedestrian or heavy vehicular traffic.

### APPLICATION FIELDS

- Restoration of paving and concrete floors, roads, loading areas and surfaces subjected to high wear in warehouses, parking garages, truck docks, hangars, industrial facilities, etc.
- Patching of horizontal surfaces to be levelled or lifted.
- Repair and finish of non-slip ramps with high resistance to traffic wear.
- Restoration of concrete steps and stairs.

### ADVANTAGES

- Rapid return to service for light traffic and heavy traffic after 24 hours and 5 days respectively.
- Allows layers from 5 to 25 mm thickness.
- High mechanical strengths and wear-resistance.
- Good adhesion to concrete.
- Suitable for filling of voids or holes in floors.
- Allows an anti-slip finishing.
- Also available in white, red and green colour.
- Easy to use and good workability.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Remove all disintegrated or unsound concrete until achieve a structurally resistant substrate. Square cut or undercut the perimeter of the area to be patched to a depth of at least 5 mm. Avoid small or sharp angles in the edge of the patch. For repairing expansion joints, edge joints must be cut at least 30 mm of deep.

Surface must be thoroughly cleaned, free of dust, dirt, coatings, cement slurries, oil, grease or any other foreign material that could affect the adhesion. Use water blasting or equivalent mechanical means to clean concrete and provide an open textured surface.

#### Mixing

**MAXPATCH<sup>®</sup>-M** is supplied ready to be mix with clean water. Pour 3,5–4,0 litres of water into a clean container per each 25 kg bag. Mix mechanically using a slow speed drill (400-600 rpm) until achieving a homogeneous product in colour and appearance. Small quantities of product can also be mixed by hand. Do not mix for prolonged period nor use high-speed mixer. Only mix quantities that can be placed until 20 minutes. After this period, setting process starts and mortar reduces its workability.

#### Application

Saturate with water the surface to be repaired but avoid free standing water prior to application.

For an optimum adhesion prepare a bonding slurry, mixing 5 parts of water with 1 part of powder, and apply it on surface using a brush or broom such as **MAXBRUSH<sup>®</sup>** or **MAXBROOM<sup>®</sup>**, filling all voids and pores.

*Patches less than 25 mm thickness.* Once the bonding slurry loses its bright, immediately place **MAXPATCH<sup>®</sup>-M** on the bottom and sides of patch using a trowel. If the previous

bonding slurry sets or harden, a new slurry must be applied.

Observe a maximum thickness per layer of **MAXPATCH®-M** until 25 mm. If several layers are required, provide a roughened surface to improve the adhesion of successive layers, i.e. each lift should be scored and allowed to set for 30 minutes before applying the next one.

Before the initial set of the mortar, level and trowel the surface to the desired finish. To provide a non-slip surface use a **MAXBRUSH** brush. Do not overwork surface.

*Patches deeper than 25 mm thickness in single layer.* Add 8 kg of clean silica sand, free of fine particle fillers, and with maximum size up to 10 mm, per each 25 kg of **MAXPATCH®-M**. Mix dry both compounds before adding the water.

Add the enough water until achieving a workable consistency mortar, but avoiding any excess of mixing water which may cause bleeding or segregation of the fresh mortar.

Apply by trowel with maximum thickness per layer of 50 mm.

### Application Conditions

Do not apply with temperatures below 5 °C or if lower temperatures are expected during the following 24 hours. Do not apply on frozen surfaces or with risk of rainfalls within 24 hours.

Ensure to saturate completely with water the surface under high temperature, windy or low humidity conditions.

### Curing

For applications with high temperature, moderate to high winds or low humidity conditions, i.e. summer time, begin curing procedures immediately after application, such as with fine mist of water, covering with wet burlap or polyethylene sheet.

### Cleaning

Before **MAXPATCH®-M** sets, all tools and equipments should be cleaned immediately with water.

Once it hardens, can only be removed by mechanical means.

## IMPORTANT INDICATIONS

- Do not apply **MAXPATCH®-M** on asphalt surfaces, paints and metal substrates.
- Do not excess the maximum thickness recommended per layer.
- Different water ratio, surface porosity and temperature conditions can produce light differences of colour intensity on surface finish.
- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

## CONSUMPTION

Application of pure product: A 25 kg bag of **MAXPATCH®-M** fills a volume of about 15,5 litres. Approximately 2,0 kg/ m<sup>2</sup>/ mm thickness.

Application adding sand: A mixture consisting of 8 kg of sand per 25 kg bag of **MAXPATCH®-M** fills a volume of about 20 litres. Approximately 1,4 kg/ m<sup>2</sup>/ mm thickness of **MAXPATCH®-M**.

These figures may vary depending on substrate conditions and texture. A preliminary test on-site will determine consumption exactly.

## PACKAGING

**MAXPATCH®-M** is supplied in 25 kg bag in standard grey colour. Available also in white, red and green colour by especial request.

## STORAGE

Twelve months in its original unopened packaging, in a dry and covered place protected from frost, humidity and direct sunlight, with temperatures above 5 °C.

## SAFETY AND HEALTH

**MAXPATCH®-M** is non-toxic but it is an abrasive product. Protective rubber gloves and safety goggles must be used to mix and apply. In case of eye contact, rinse thoroughly with clean water for at least 15 min, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritation continues, seek medical attention.

For further information, Safety Data Sheet of **MAXPATCH® -M** is available by request. Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

## TECHNICAL DATA

<b>Characteristics of the product</b>	
Appearance of component	Grey, white or red powder
Mixing ratio (% , by weight)	14 –16
Density of powder (g/cm <sup>3</sup> )	1,35 ± 0,1
Density dry mortar (g/cm <sup>3</sup> )	2,0 ± 0,1
<b>Characteristics of the cured product</b>	
Compressive strength at 28 days (MPa)	> 35,0
Flexural strength at 28 days (MPa)	> 8,0
Adhesion on concrete at 28 days (MPa)	> 1,5 (breaks substrate)
<b>Consumption* / Thickness</b>	
Consumption for pure product (kg/m <sup>2</sup> ·mm)	2,0
Minimum - Maximum thickness per pure layer (mm)	5 – 25

(\*)These figures may vary depending on roughness and surface conditions.

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®**, **S.A.U.** 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. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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