



# MAXMORTER<sup>®</sup> FLOOR -10

## FAST SETTING HYDRAULIC BINDER FOR URGENT SCREEDS OF INDOOR FLOORS UP TO 10 cm THICK

### DESCRIPTION

**MAXMORTER<sup>®</sup> FLOOR -10** is a fast-setting, hydraulic binder composed of polymer-modified special cements. Once mixed with suitable aggregates on site, provides a fast-drying mortar screed for urgent thickness increase of concrete floors and compression layers up to 100 mm thick before placing the finish pavement.

### APPLICATION FILEDS

- Urgent screeds and increasing of thickness up to 100 mm thick, for floors before finishing pavement with wood parquet, ceramic, vinyl, etc.
- Levelling in large thickness of horizontal concrete surfaces.
- Levelling over floor heating systems.

### ADVANTAGES

- Fast hardening: allows placing of ceramic tiles after 24 hours and other finishes such as wood, parquet, epoxy, polyurethane, etc after 48 hours.
- Allows high thickness per layer up to 100 mm.
- Stress-free hardening and shrinkage compensated mortar, with low risk of cracks.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Surface must be structurally sound, firm, without cement laitance or weak mortars, and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. Minimum bond strength of substrate must be above 1 N/mm<sup>2</sup>. It must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion.

For surface cleaning and preparation, preferably in case of smooth and/or poorly absorbent substrates, use sand blasting or high pressure water cleaning methods, not being desirable aggressive mechanical or chemical means. All voids, holes, cracks or other defects deeper than 8 mm, must be opened and repaired with **MAXROAD<sup>®</sup>** (Technical Bulletin No. 27).

#### Mixing

**MAXMORTER<sup>®</sup> FLOOR -10**, aggregates and water can be mixed mechanically by a concrete mixer or by a low speed drill. The recommended mixing ratio is:

COMPONENTS	(kg)
<b>MAXMORTER FLOOR -10</b>	1.000
Clean aggregate 0-4 mm size	2.400
Gravel 4-10 mm size	1.600
Water	470

Before adding the water, the dry components should be pre-mixed with **MAXMORTER<sup>®</sup> FLOOR -10** in the ratios stated above.

The amount of water may vary depending on the humidity contents of the aggregates and their average size. If the aggregates are damp, the amount of mixing water should be reduced. In any case the final consistency should be such that there is no segregation or bleeding fine particles on surface. Do not add more water once the mix begins its setting.

#### Priming

Prime surface with **MAXPRIMER<sup>®</sup> FLOOR** (Technical Bulletin No. 230) for best adhesion and prevent air bubbles on surface. Dilute 1 part of **MAXPRIMER<sup>®</sup> FLOOR** with 3 parts of water, and then apply a homogeneous and continuous coat by brush or broom without leaving any puddles. Estimated consumption of the dilution is 0,2 - 0,25 kg/m<sup>2</sup> per coat. On very porous surfaces, two or three successive coats may be required, with a drying time between coats of 10-15 minutes at 20 °C. Allow **MAXPRIMER<sup>®</sup> FLOOR** dry to touch before applying the mortar, 3-4 hours at 20 °C

depending on temperature, relative humidity and ventilation conditions.

With low temperatures, high humidity or poor ventilation, the drying time can be increased up to the next day after application. Do not allow more than 24 hours before applying the cement-based mortar.

## Application

Place and level **MAXMORTER® FLOOR-10** in a single step with a straight edge or trowel within 30 minutes after mixing, in layers up to 100 mm maximum thickness. Minimum thickness layer depends on the aggregate size used. Thus, for an aggregate maximum size of 10 mm, the minimum thickness of the mortar will be 25-30 mm approximately.

Apply in delimited sections in advance that should be finished completely to avoid cold joints in non desired places. Limits of each section should coincide with contraction or concrete joints of pavement.

For thickness layer higher than 100 mm, scratch surface with a trowel to provide a rough finish and facilitate the adhesion of the next layer application as soon can take pedestrian traffic (between 8 to 24 hours at 20 °C).

Apply in sections previously delimited that should be finished completely to avoid cold joints in non desired places. Limits of each section should coincide with contraction and concrete joints. After 24 hours, sawcut contraction joints on each limit or every 40 m<sup>2</sup> maximum in case there are not present on concrete base. Isolation joints must be provided on the perimeter between ad-joining parts. Expansion joints must not be covered by **MAXMORTER® FLOOR-10** and should be sealed with a suitable sealant of **MAXFLEX®** range.

## Application conditions

Do not apply if water contact, condensation, dampness or dew is expected within 24 hours.

Do not apply with substrate and/or ambient temperature is below 5°C, or when temperatures are expected to fall below 5 °C within 24 hours.

Do not apply to frozen or frost-covered surfaces.

Do not apply with substrate and/or ambient temperatures higher than 40 °C.

## Curing

With warm weather (> 30 °C), wind, low relative humidity and/or direct sunlight exposure, prevent a quick drying of the mortar keeping its moisture for at least 24 hours by using polyethylene sheeting or damp burlaps. Do not use curing agent nor wet the surface.

Allow a minimum curing time of 24 h (at 20 °C and 50% R.H.) before pedestrian traffic or installation floor finish for a screed of 100 mm thick. Prior to apply epoxy or polyurethane coatings, check

surface moisture is below than 5%. Lower temperature, higher relative humidity and/or poor ventilation conditions may increase curing time. Consult the Technical Department for further information.

## Cleaning

All tools and equipment must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means

## CONSUMPTION

Estimated consumption of **MAXMORTER® FLOOR-10** as binder is 450 kg per m<sup>3</sup>.

These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

## IMPORTANT INDICATIONS

- Do not apply over weak substrates, low strength mortars or gypsum plasters
- No suitable for outdoor applications or vertical substrates..
- Do not apply on substrates subject to raising damp or negative water pressure.
- Allow new concrete and mortars a curing time of 28 days before application.
- Do not add non-specified compounds to the mix.
- Different water ratio, aggregate ratio and size used, may cause different final performances. Make previous trials to verify the final performances required.
- Do not use leftovers from previous mixes.
- To keep the workability of the fresh mortar, remix again but do not add more water.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department

## PACKAGING

**MAXMORTER® FLOOR-10** is supplied in 20 kg bags. It is available in grey colour.

## STORAGE

Six months in its unopened original packaging. Store in a cool, dry and covered place, protected

from moisture, frost and direct sunlight, with temperatures above 5 °C.

## **SAFETY AND HEALTH**

**MAXMORTER® FLOOR-10** is not a toxic product but is an abrasive compound. Avoid direct contact with skin and eyes, and breathing dust. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected

area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXMORTER® FLOOR-10**.

Disposal of the product and its packaging must be carried out in accordance with current official regulations and is the responsibility of the final consumer of the product.

## TECHNICAL DATA

Product characteristics	
General appearance and colour	Grey powder
Mixing water (% by weight)	9,5
Application and curing conditions	
Minimum and maximum application temperature (°C)	> 5 / 40
Pot life at 22°C & 40% R.H. (min)	15
Initial / Final setting time at 22 °C & 50% R.H., (m in) / min	25 / 40
Curing time at 22 °C & 50% H.R. (d)	
- Pedestrian traffic or next layer application	24
- Finish with tile, wood, carpet, epoxy or polyurethane coatings	48
Cured product characteristics <sup>(1)</sup>	
Compressive strength at 1d / 7d / 28d (MPa)	21,7 / 29,2 / 35,0
Flexural strength at 1d / 7d / 28d (MPa)	3,5 / 5,9 / 7,4
Consumption <sup>(2)</sup> / Thickness	
Minimum and maximum thickness per layer (mm)	100
Consumption (kg/m <sup>3</sup> of volume)	450

(1) These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

(2) Mechanical strengths with the water ratio and aggregates recommended.

## 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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