



# MAXLEVEL<sup>®</sup>

## SUPER



### ONE-COMPONENT SELF-LEVELLING FLOOR MORTAR WITH HIGH ABRASION RESISTANCE, FOR REPAIRING INDOOR CONCRETE PAVEMENTS WITH THICK LAYER

#### DESCRIPTION

**MAXLEVEL<sup>®</sup> SUPER** is a one-component self-levelling mortar, made of polymer-modified cement, selected aggregates, ready to be mixed only with water.

**MAXLEVEL<sup>®</sup> SUPER** provides an extraordinary fluidity and it is specially designed for repairing and finishing indoor concrete pavements, which require a levelling layer with very high abrasion resistance in thick layer between 3 and 15 mm.

#### APPLICATION FIELDS

- Self-levelling underlayment as a indoor subfloor before the application of other floor finishes such as ceramic tiles, carpets, vinyl sheeting, epoxy and polyurethane topcoats, etc.
- Smoothing surfaces on concrete, terrazzo, tiles and stone in residential buildings, hospitals, hotels, offices, etc.
- Repairing and wearing layer of concrete pavements exposed to moderate wheel traffic in industrial floors, warehouses, workshops, etc.
- Levelling over floor heating systems.

#### ADVANTAGES

- One-component mortar, only needs water for mixing.
- Self – smoothing, it spreads itself, no troweling required.
- Fast hardening, allowing installation of floor surfacing-systems in 24 hours.
- Stress-free hardening, even in thick layers applied at once.

#### APPLICATION INSTRUCTIONS

##### Surface preparation

Remove all damaged concrete until achieve a structurally resistant and sound surface. Cracks, defects and holes deeper than 15 mm must be cut the edges perpendicularly and repair with **MAXROAD<sup>®</sup>** (Technical Bulletin no.: 27). Surface must be free of all dirt, dust, oil, grease, paints, gypsum, slurrys, plasters, low strength mortars, etc. Do not use chemical cleaners.

##### Mixing

Pour between 4,8 and 5,0 litres of clean water into a clean container. Add a 25 kg bag of **MAXLEVEL<sup>®</sup> SUPER** while mixing with a low speed mixer (400 – 600 rpm). Mix 1-2 minutes until a fluid mortar without lumps is achieved. Do not over-mix in order to avoid air bubbles. Let to rest 3 minutes and re-mix briefly. Applications by pump ensure to keep the same water ratio in the mix.

Levelling of areas with thickness greater than 15 mm and up to 30 mm maximum per layer, add 8 kg of dry silica sand, free from dust, with continuous size from 0 to 3 mm maximum per each 25 kg bag of **MAXLEVEL<sup>®</sup> SUPER**. Mixing water will be reduced to 4,5 – 5 litres approximately per bag, but avoid any bleeding or segregation of the mix by an excess of water.

##### Application

Prime surface with **MAXPRIMER<sup>®</sup> FLOOR** for best bond and in order to prevent air bubbles from porous of surface. Dilute 1 part of **MAXPRIMER<sup>®</sup> FLOOR** and 3 parts of water and apply a homogeneous and continuous coating by brush, roller or broom without leaving any puddles. Theoretical consumption of the dilution is 0,2 – 0,25 l/m<sup>2</sup> per coat, porous surfaces may require

additional coats of primer. Apply a test on-site to determine consumption exactly.

Allow primer to dry completely and become tack-free, 3 – 4 hours at 20 °C approximately, then place and spread **MAXLEVEL® SUPER** in a single step with a rubber squeege and with thickness between 3 and 5 mm per layer or up to 18 mm with addition of sand. Before the fresh layer begins to set, 20 - 30 minutes approximately at 20 °C, use a spiked roller to eliminate entrapped air on surface. In order level thickness greater than recommended, pour a next layer of **MAXLEVEL® SUPER** when the previous one can take foot traffic.

Apply in delimited sections in advance, allowing a continuous mixing and pouring beside the previous fresh layer, 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 the pavement. Twenty four hours after application, sawcut contraction joints on each limit or every 40 m<sup>2</sup> maximum if 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 **MAXLEVEL® SUPER** and should be sealed with a suitable flexible sealant such as MAXFLEX 100 LM (Technical Bulletin n°.: 63).

#### **Application conditions**

Do not apply on asphalt, wood, metal, gypsum, dusty or frost surfaces. Allow 28 days of curing time to apply on new concrete. Minimum bond strength of substrate must be above 1 N/mm<sup>2</sup>. Do not apply below 5 °C or if lower temperature is expected the following 24 hours. Do not apply with wind or temperature above 35 °C.

#### **Curing conditions**

With hot temperature conditions (> 30 °C), protect from a excessive quick-drying covering with a plastic sheet. Do not wet surface nor use curing compounds.

Curing time of a 10 mm thickness layer for installation of finish floor is 24 hours, at 20 °C and 50 % R.H. A greater thickness, lower temperature or higher R.H. increase curing time.

#### **Cleaning tools**

Tools and equipments can be clean with water immediately after use. Once it hardens, can only be removed by mechanical methods.

#### **CONSUMPTION**

Estimated consumption of **MAXLEVEL® SUPER** is 1,6 kg/ m<sup>2</sup> per mm. thickness as pure layer and 1,2 kg/ m<sup>2</sup>/ mm thickness approximately with the addition of sand. Estimated consumption of sand is 0,4 kg/ m<sup>2</sup>/ mm. thickness approximately depending on its proportion. Consumption can vary depending on porosity and texture of surface, and application method. A preliminary test on-site is recommended to know consumption exactly.

#### **IMPORTANT INDICATIONS**

- Do not use more water in the mix than the recommended ratio.
- Do not add not specified compounds to the mix.
- Do not exceed the thickness per layer in the application.
- Addition of sand reduce the mechanical properties of Technical Data.
- For any other application not specified in this Technical Bulletin consult our Technical Department.

#### **PACKAGING**

**MAXLEVEL® SUPER** is supplied in 25 kg bag in grey colour.

#### **STORAGE**

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

## TECHNICAL DATA

Product characteristics	
Product appearance	Grey powder
Mixing water (%)	19,2 - 20
Slump, 5 x 3 cm cylinder (mm)	135
Open time, at 20 °C (min)	20 - 30
Setting time, at 20 °C (h) - Initial - Final	1 – 2 2 – 3
Characteristics of cured product	
<b>MAXLEVEL® SUPER</b> meets specifications of CE mark for self levelling mortars according to EN – 13813, classified as <i>EN 13813 Polymer-modified CT-C25-F6</i> .	
Put into service, layer 10 mm thickness at 20 °C (h) - Pedestrian traffic - Installation of floor finish	8 24
Flexotraction strength (MPa) - 3 days - 7 days - 28 days	4,0 6,5 9,2
Compressive strength (MPa) - 3 days - 7 days - 28 days	16,0 25,0 33,0
Superficial hardness SH (N/mm <sup>2</sup> )	83,8
Impact resistance IR / height ( N • m / mm)	5,89 / 600
Wearing resistance Böhme (cm <sup>3</sup> / 50 cm <sup>2</sup> )	5,2
Adhesion on concrete, at 28 days (MPa)	> 2
Consumption / Thickness	
Minimum and maximum thickness per layer pure/ with sand (mm)	3 – 15 / 15 - 30
Estimated consumption per layer pure / with sand (kg/m <sup>2</sup> / mm thickness)	1,6 / 1,2

## 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.** 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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