MAXFLOOR® MARINE

TWO-COMPONENT, CEMENT-BASED FLEXIBLE MORTAR WITH HIGH ADHESION FOR METAL SURFACES

DESCRIPTION

MAXFLOOR® MARINE is a two-component mortar composed of component A, water-based acrylic resin, and component B, cement-based mortar with special additives. Once mixed, it provides a non-slip mortar with high flexibility and adhesion, suitable for protection against corrosion and abrasion on metal surfaces.

APPLICATION FIELDS

- Protection of metallic surfaces against corrosion processes, due to marine environment.
- Bonding layer for metallic surfaces to be covered with tiles, cement mortars, etc.
- Flooring system subject to pedestrian traffic on metal surfaces in ramps, metal structures, docks, ship decks, etc.

ADVANTAGES

- High flexibility: Withstands both thermal movements and vibrations of metal substrates.
- Withstands UV-rays with no yellowing.
- Excellent adhesion on metal surfaces. No special primer/bonding agent is requiered.
- Provides a non-slip surface finish.
- Application up to 15 mm thick per layer.
- Suitable for metal substrates: iron, steel, and stainless steel.
- Easy to use and good workability.
- Environmentally friendly: non-toxic, cement-based, solvent-free and non-flammabe product. Suitable for use in bad ventilation areas.

APPLICATION INSTRUCTIONS

Surface preparation
Metal surface must be structurally sound, clean and degreased, free of dust, old coatings, oil, greases, petrochemicals or any foreign material that could affect the adhesion of the mortar.

For cleaning and preparing the surface, use sandblasting or shot blasting to remove all traces of corrosion.

Mixing
MAXFLOOR® MARINE is supplied as a two-component pre-weighed set. Premix the Component A, and pour it in a clean container (15 to 17% by weight of liquid) and then slowly add Component B to the liquid and mix, using a slow speed electric drill (400-600 rpm) fitted with a disc mixer for about 2-3 minutes to obtain a smooth, lump-free and homogeneous mortar of dry consistency. Small quantities of product can also be mixed by hand.

Allow the mixture to rest for 3 to 5 minutes to fully wet out all the powder, and remix briefly before applying.

Application
Apply ***MAXFLOOR® MARINE*** using a trowel or levelling guides to the desired thickness, which shall not be above 15 mm. Spread 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 substrate
.
In order to achieve thickness higher than 15 mm, place a next layer of ***MAXFLOOR® MARINE*** when the previous layer can take pedestrian traffic, i.e., after 24 hours.

Expansion joints must not be covered by ***MAXFLOOR® MARINE*** and should be sealed with any suitable flexible sealant from ***MAXFLEX®*** range.

Application Conditions
Do not apply when rain, water contact, condensation, dampness and dew is expected within the first 24 h after application.

Do not apply with substrate and/or ambient temperature is at or below 5°C, or when temperatures are expected to fall bellow 5°C within 24 h after application. Do not apply to frozen or frost-covered surfaces.

Curing
Prevent quick drying of ***MAXFLOOR® MARINE***, and protect it from extreme heat and direct sunlight to maintain its moisture for at least 24 hours by using polyethylene sheeting or damp burlaps. Do not use curing agent nor wet the surface.

Allow ***MAXFLOOR® MARINE*** to cure for at least 24-48 h, at 20ºC and 50% R.H. before pedestrian traffic. Lower temperatures and/or higher R.H. values increase the curing time.

Cleaning
All mixing and application 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 for ***MAXFLOOR® MARINE*** is 2,0 kg/m^2 per mm thickness.

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

- Allow new concrete and mortars a curing time of 28 days before application.
- Do not add water, cements, aggregates, additives, or other compounds.
- To restore the workability, remix the mortar but never add more water.
- Observe the recommended thickness per layer.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXFLOOR® MARINE is supplied in two-component pre-weighed sets of 29 kg: Component A in 4 litre plastic jerrycans and Component B in 25 kg bags. It is available in dark grey colour.

STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5°C.

SAFETY AND HEALTH

MAXFLOOR® MARINE is not a toxic product but is an abrasive composition. 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 ***MAXFLOOR® MARINE***

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics		
General appearance and colour for Component A	White milky liquid	
General appearance and colour for Component B	Grey powder	
Density for Component A, (g/cm^3)	1,02 ± 0,05	
Density for Component B, (g/cm^3)	1,60 ± 0,10	
Mixing ratio for Component A, (%, by weight)	16 ± 1	
Density for fresh mortar, (g/cm^3)	1,95 ± 0,10	
Application and curing conditions		
Minimum application temperature for substrate and ambient, (ºC)	> 5	
Pot Life at 20 ºC & 50% R.H., (min)	25 - 30	
Curing time for pedestrian traffic at 20 ºC & 50% R.H., (h)	24 - 48	
Cured product characteristics		
Abrasion resistance (Taber test), ASTM D-4060.	500 Cycles	1.000 Cycles
Wearing index (Abrading wheel: H-22 & Load: 1 kg)	2,1	0,16
Thickness / Consumption*		
Thickness per layer, (mm)	5 - 15	
Consumption per layer, (kg/m^2·mm)	2,0	

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