



# MAXFLOOR®

## WATER-BASED EPOXY COATING FOR FLOOR FINISHING AND PAINTING OF SURFACES IN GENERAL

### DESCRIPTION

**MAXFLOOR®** is a coloured and two-component water-based epoxy coating suitable for finishing and painting of floors and surfaces in general. It is available in two different versions:

- **MAXFLOOR®** MATT for an eggshell, matt finish.
- **MAXFLOOR®** GLOSS for a smooth glossy finish.

### APPLICATION FIELDS

- Protective and decorative coatings for concrete floors, cement mortars or gypsum plasters walls or other surfaces in hospitals, garages, dairies, butcheries, kitchens, power plants, chemical industrial facilities, warehouses, etc.
- Protective coating of metal surfaces, steel and polished surfaces.
- Priming of solvent-free epoxy-based systems.

### ADVANTAGES

- Excellent adhesion to concrete and steel.
- Elastic modulus compatible with the thermal movements of the substrate.
- High mechanical strengths, providing a coating with an excellent abrasion resistance.
- Solvent-free and practically odour-free. Suitable to use in poor ventilated areas.
- Easy to clean.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Surface to be coated must be structurally sound and clean, free of dust, coatings, efflorescences, oil, grease or any foreign material that could affect to adhesion. Consult our technical note *Preparation of concrete surfaces for application of epoxy-based coatings*.

Concrete and tiles: Substrate could contain a certain amount of humidity but it cannot be applied on wet surfaces or with flowing water.

Steel or metal surfaces: Treat by shot or sand blasting to Sa 2½ grade (near to white metal) according to Swedish Standard SIS 055900 or equivalent. For the drying conditions on metal surfaces, special care should be taken because if it is too slow, corrosion problems may appear.

#### Mixing

**MAXFLOOR®** is supplied as a pre-weighed two-component set. The hardener, component B, is poured into the resin, component A. In order to ensure the proper reaction between both components, make sure that all of component B is added. Mix mechanically using a slow speed drill (300 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, which may heat the mixture or introduce air bubbles.

Check the technical data table for the pot-life or time it takes the product to harden inside the container. The pot-life for 10 kg at 20 °C is 2 hours, increasing with lower temperatures or small quantities of mixture and reducing with higher temperatures.

## Application

**MAXFLOOR**<sup>®</sup> application can be done by brush, short pile roller or airless spray, even over slightly damp substrates. According to the application method used, the viscosity for the first coat can be adjusted with water up to 5% by volume of the mix A+B.

Smooth finishing: Apply a first coat of **MAXFLOOR**<sup>®</sup> with a coverage of 0,2–0,3 kg/m<sup>2</sup>, depending on the porosity of the substrate. Once dried, i.e. from 6 to 12 hours, depending on ventilation and ambient conditions, apply a second layer with the same coverage. Do not leave more than 24 hours between coats.

Non-slip surface finish: Apply a first coat of **MAXFLOOR**<sup>®</sup> with a coverage of 0,2–0,3 kg/m<sup>2</sup>, depending on the porosity of the substrate. While this coat is still tacky, dust dry and clean silica sand (grain size 0,1 – 0,5 mm) with an estimated consumption of 1,0–1,5 kg/m<sup>2</sup>. For better aesthetic finish, coloured sand can be added such as DRIZORO sand, available in eight different colours. Once this layer is dry, sweep and vacuum surface to remove excess sand, and apply a layer of **MAXFLOOR**<sup>®</sup> as a sealing coating with a coverage of 0,2–0,3 kg/m<sup>2</sup> depending on the grain size.

Priming for solvent-free epoxy coating and other systems: **MAXFLOOR**<sup>®</sup> MATT can be used as primer for solvent-free epoxy systems over concrete or cement mortars. It is particularly recommended as a primer for **MAXEPOX**<sup>®</sup> 800 coating (Technical Bulletin N.: 35).

**MAXFLOOR**<sup>®</sup> MATT can also be applied over other types of paints or coatings with or without solvents, once those have hardened, and thus, provide a good adhesion between the hardened coating and the new one. Performance over several substrates such as epoxy, polyester, polyurethane, bitumen, asphalt slurries, etc, is good, although a preliminary test on-site to check bonding is recommended.

Before applying the finish coating, it is required that the **MAXFLOOR**<sup>®</sup> MATT coating applied as primer is dry, that is, the water has evaporated and the polymerising has at least started. For this reason, a good air renovation, low humidity and a temperature above 10°C are required.

## Application conditions

Minimum substrate temperature is 10 °C and the relative humidity for the air is less than 80%. Surface and air temperature must be at least 3 °C higher than dew temperature during the application and curing process. For low temperatures and/or high humidity levels, provide dry and hot air, i.e. air from an electric powered air blower system, in order to get suitable application conditions.

## Curing

Allow a curing time of 5 days at 20 °C and 50% R.H. for total curing and before putting into service. Applications carried out at lower temperatures, with high humidity or with poor ventilation will require longer drying and curing times.

## Cleaning

Tools and equipments can be cleaned with **MAXEPOX**<sup>®</sup> **SOLVENT** immediately after use. Once the product hardens, it can only be removed by mechanical methods.

## CONSUMPTION

The estimated consumption for **MAXFLOOR**<sup>®</sup> varies from 0,5 to 0,3 kg/m<sup>2</sup> per layer. Apply at least two coats for optimum protection and appearance.

These figures may vary depending on the roughness and surface conditions. A preliminary test on-site will determine the coverage exactly.

## IMPORTANT INDICATIONS

- For interior use only.
- Do not apply on substrates subjected to rising damp.
- Do not add solvents, aggregates, admixtures or any other compounds to **MAXFLOOR**<sup>®</sup>.
- Avoid water condensation, damp and contact with water for at least 72 hours after application.
- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

## PACKAGING

**MAXFLOOR®** is supplied in two-components pre-weighed sets of 10 and 20 kg. It is available in white, grey, green, red and beige colour and other colours available by request.

## STORAGE

Six months in its original unopened containers in a dry and covered place, with temperatures between 5 °C and 30 °C. Protect against direct sunlight and frost. Temperatures below 5 °C lead the crystallisation of the product. Should this happen, it must be heated slowly at moderate temperatures while is regularly stirred until achieving its homogeneous and original lump-free conditions.

## TECHNICAL DATA

Characteristics of the products	
A:B ratio, (by weigh)	4:1
Solid content (% , by weigh)	55
Conditions for application and curing	
Temperature for application and curing (°C)	>5
Pot life at 10°C / 20°C / 30°C (10 kg) (minutes)	180 / 120 / 60
Tack-free drying time at 65 % R.H (hours)	6 - 12
Time for putting into service or total curing (days)	8 / 5 / 3
Characteristic for cured products	
Persoz Hardness 1 / 2 / 7 / 14 days at 20 °C (s)	60 / 90 / 220 / 255
Erichssen Extensibility 7 / 14 days, DIN 52156	7,0 / 5,5
Gardner Shine. Matt/Glossy version	22 / 65
Water resistance over aluminium at 20°C / 98 °C (months/hours)	6 / 6
Consumption	
Consumption* per layer (kg/m <sup>2</sup> )	0,2 - 0,3

(\*)These figures may vary depending on the roughness and the surface conditions. A preliminary test on-site will determine the coverage exactly.

## 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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ISO 9001  
ISO 14001

BUREAU VERITAS  
Certification

n° 6003176 / 6003176-MA



## SAFETY AND HEALTH

When mixing and applying **MAXFLOOR®** do not work without the protection of rubber gloves and safety goggles. Do not inhale vapors from heating and combustions process. In case of eye contact, rinse immediately with clean water without rubbing and seek medical assistance if irritation persists. In case of skin contact, wash with abundant water and soap. If ingested, seek immediate medical assistance. Do not induce vomiting.

Observe the usual precautions necessary for the use and applications of this type of products.

For further information, Safety Data Sheet for **MAXFLOOR®** is available by request.

The final user must do disposal of the product and its empty packaging and according to official regulations.