



MAXFLOOR®

WATER BASE EPOXY COATING FOR FLOOR FINISHES AND PAINTING OF SURFACES IN GENERAL

DESCRIPTION

MAXFLOOR is a two component epoxy formulation in a water emulsion. It is available in two types:

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

USES

- Coating or priming of concrete floors or gypsum plaster walls in hospitals, garages, dairies, butcheries, kitchens, nuclear plants, and chemical industry in general
- Coating of steel and polished surfaces.
- Priming of solvent free epoxy systems.

ADVANTAGES

- Excellent adhesion to concrete and steel.
- Elastic modulus compatible with the thermal movements of the substrate.
- Excellent abrasion resistance.
- Easy to clean.
- Free of any organic solvents
- Practically odour free.

APPLICATION INSTRUCTIONS

Mixing: MAXFLOOR is supplied in pre-weighed sets. The hardener component B, is poured into the resin, component A. In order to guarantee a proper reaction of both components make sure of pouring all of component B. The mix can be done manually or using a low speed drill until obtaining a homogenous appearance and colour. Once they are well mixed, it is recommended to pour all of the contents into a clean container.

Check the technical data table for the “pot life” or time it takes the product to harden inside the container. The “pot life” of 10 kg. at a temperature of 20 °C is of 2 hours.

Preparation of the surface: All of the substrates to be coated should be properly prepared, as indicated in our technical note: *Preparation of concrete surfaces for epoxy coating applications.*

Brick and concrete. Concrete and ceramic substrates can contain a certain amount of humidity but it cannot be applied on wet surfaces or with flowing water.

Steel: Treat by shot or sand blasting to AS 2 ½ Swedish standard. The surfaces must be dry and free of dust. On metal surfaces special care should be taken for the drying conditions, because if it is too slow, corrosion problems may appear.

Application: For the proper reaction of the components, the minimum temperature of the substrate is 10°C and the relative humidity must be below 80%.

If the temperature were lower than 10°C or the relative humidity greater than 80%, the proper conditions must be created using warm air and renewing it periodically. Consequently in order to achieve the evaporation of the water contained in the product, if warm air is used, it must come from a dry source, (electrical); warm air from combustion of gas or oil produces a large amount of humidity which hinders the drying of the coating.

The application can be done by brush, roller or spray gun, even over slightly damp substrates. The viscosity of the first coat can be adjusted for the application method used diluting with isopropyl alcohol.

Coverage is estimated between 5 and 3 m² per kg and coat depending on the state of the substrate, and two coats are usually applied for better coverage.

Application as primer for solvent free epoxy systems: The eggshell finish type (MAXFLOOR MATT) can be used as primer for solvent free epoxy systems over concrete or cement mortar. The substrates must be preferably dry, but can admit the presence of slight residual humidity in the substrate without adhesion problems. It is particularly recommended as a primer for our MAXEPOX 800 coating.

MAXFLOOR MATT can also be applied over other types of paints or coatings, once hardened, with or without solvents, and thus aiding in the good adhesion between the hardened coating and the new one. The performance over several substrates such as epoxy, polyester, polyurethane, bitumen, asphalt slurries, etc, is good, although a trial application to check bonding is recommended.

Before proceeding to apply the finish coat, it is required that the MAXFLOOR MATT coat applied as primer is dry, that is, the water has evaporated and the polymerising has at least started. For this, a good air renovation, low humidity and a temperature above 10°C are required.

Open time: This product can be repainted at any moment after curing, no matter how much time has elapsed.

Cleaning: Tools or stains with this product can be cleaned with water before it hardens.

PACKAGING

MAXFLOOR is supplied in pre-weighed sets of 10 and 20 Kg.

COLOURS

White, grey, green, red, and beige. By special request other colours can be supplied.

STORAGE

One year in the original air-tight containers, in a dry, temperate place, avoiding temperatures below 5 °C and direct exposure to the sun.

Prolonged storage and temperatures below 5 °C produce the crystallising of the product. Should this happen, in order to return the product to normal conditions it must be heated between 80 and 90 °C, while being regularly stirred.

CAUTION

Avoid contact with the skin, mucous membranes, etc. Do not inhale vapours produced during heating or combustion. Observe the usual precautions necessary for the application of this type of products.

TECHNICAL DATA

Proportion of components A:B (weight)	4:1
Solids (%)	50 – 55
Pot life 10°C / 20°C / 30°C (minutes)	180 / 120 / 60
Open time 20°C (hours)	2 – 4
Curing time 10°C / 20°C / 30°C (days)	8 / 5 / 3
Dust free time, 65% HR (h)	13.5
Persoz Hardness 1 / 2 / 7 / 14 days (sec. at 20°C)	60 / 90 / 220 / 255
Erichssen Extensibility 7 / 14 days DIN 52156	7.0 / 5.5
Gardner Shine MATT / GLOSS types	22 / 65
Water resistance (over aluminium) at 20 / 98 °C	6 months / 6 hours

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO 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.



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