



MAXEPOX[®] FLEX

HIGH PERFORMANCE FLEXIBLE AND WATERPROOF EPOXY SYSTEM

DESCRIPTION

MAXEPOX FLEX is a two-component, solvent-free, flexible and waterproof epoxy formulation suitable for use on concrete and metal substrates.

APPLICATION FIELDS

- Waterproofing and protective coating of drinking water tanks.
- Waterproofing and chemical protection for concrete and metal surfaces in underground works, foundations, cooling towers, sewers, water pipes, etc.
- Preparation of flexible epoxy-based mortar for coating of concrete slabs in garages, warehouses, sport centres, etc.
- Waterproofing and coating of concrete structures subject to movements.
- Protection against chemical attack in industrial floors.

ADVANTAGES

- Great flexibility and mechanical properties, withstands thermal movements of the substrate.
- Very good capacity to bridge cracks.
- High abrasion and wear resistance.
- Excellent adhesion on concrete and metal surfaces.
- Very good chemical resistance against soil salts, oils, petrols, acid and alkalies diluted, etc.
- Non-toxic, solvent-free and non-flammable. Suitable for contact with potable water.

APPLICATION INSTRUCTIONS

Surface preparation.

The concrete surface must be sound and strong, completely clean, free of dust and oils, and with slight roughness. Surface moisture content should not exceed 4 %. Metal surfaces must be cleaned by shot or sandblasting to eliminate superficial corrosion, and must be degreased.

Consult our technical note *Preparation of concrete surfaces for application of epoxy base coatings* for further information.

On porous substrates, a primer coat of MAXPRIMER (Technical Bulletin n° 45) can be used (200-300 gr/m²).

Mixing.

MAXEPOX FLEX is supplied in pre-weighed sets. The hardener, component B, is poured into the resin, component A. In order to ensure the proper reaction of the two components make sure all of component B is added.

The mixture can be done manually or better using a low speed drill (300 r.p.m. maximum), until achieving a homogeneous product in colour and appearance. Avoid to produce too much air while mixing the product.

If the preparation of an epoxy-based mortar is required, it is advisable to pour the binder into a clean container and add dry siliceous aggregate, mixing well until a homogeneous appearance is achieved. DRIZORO can supply this appropriate high quality aggregate already pre-weighed. The mixing ratio binder:aggregate depends on size and workability desired. A 0,2 – 0,4 mm aggregate size is recommended with an approximate ratio 1:1 by weight.

Application.

As pure coat: Apply MAXEPOX FLEX using a brush or roller, in two successive coats with a minimum time lapse of 3 hours and maximum 24 hours.

As epoxy-based mortar: It can be done over all the primed area with MAXPRIMER, using a trowel to the require thickness.

After 24 hours, a topcoat as finish on the epoxy based-mortar can be done using MAXEPOX FLEX itself or other specific epoxy or polyurethane coating of DRIZORO.

Application temperature.

The ideal working temperature is between 8 °C and 30 °C.

Cleaning.

The tools and equipments can be cleaned with MAXEPOX SOLVENT immediately after using. Once the product hardens, it can only be removed by mechanical methods.

CONSUMPTION

As pure coats: It requires an approximate consumption between 0,6 – 0,7 kg/m² to achieve a recommended total thickness of 350 - 400 microns (applied in two coats).

As epoxy-based mortar: The estimative consumption is 2 kg/m²/mm thickness of mortar made with ratio 1:1 by weight for binder:aggregate. A thickness of 1-2 mm is recommended.

TECHNICAL DATA

Colour	Green, red, white and grey
Density A+B (gr/cm³)	1,76
Solids content	100 %
Ratio components A:B	4:1
Brookfield viscosimeter A+B	2000 – 3000 cps
Viscosity DIN 4 mm A+B, 20 °C	170 sec
Pot life 10 °C/ 20 °C/ 30 °C	90/ 30/ 10 min.
Dry to touch, 20 °C	3 – 6 hours
Application temperature	8 – 30 °C
Final curing time, 20 °C	4 days
Total consumption as pure coat	0,6 – 0,7 kg/m ²
Dry film thickness as pure coat	350 – 400 microns
Consumption of mortar per mm thickness	2 kg/m ²
Recommended thickness as mortar	1-2 mm
Tensile strength, ASTM D-412	10,1 Mpa
Elongation at break, ASTM D-412	60 %
Adhesion on concrete, ASTM D-4541	4,09 Mpa
Adhesion on steel, ASTM D-4541	1,25 Mpa
Taber abrasion resistance, ASTM D-4060 CS-10 wheel, 500 g load, 500 / 1000 cycles	0,03 / 0,06 mg
Flash point	Non-flammable
Toxicity	Non-toxic

PACKAGING

MAXEPOX FLEX is supplied in pre-weighed sets of 10 and 20 kg.

STORAGE

Six months in its original unopened set, in a dry and covered place at temperatures above 5 °C and below 30 °C. Protect against direct sunlight and frost.

SAFETY AND HEALTH

When mixing and applying, do not work without the protection of rubber gloves and safety goggles. If the product comes in contact with the eyes, rinse immediately with clean water without rubbing and seek medical assistance. In case of contact with the skin, wash with abundant water and soap. If ingested, seek immediate medical assistance. Do not induce vomiting. There is available Safety Data Sheet of MAXEPOX FLEX by request.

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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