DRIZORO® Construction Products

MAXEPOX® TAR

EPOXY – TAR COATING FOR WATERPROOFING AND PROTECTION OF CONCRETE AND METAL SURFACES

CE

DESCRIPTION

MAXEPOX® TAR is a two-component modified-tar epoxy-based coating.

APPLICATION FIELDS

- Waterproofing of concrete on foundations, pipe lines and underground structures.
- Chemical protection and waterproofing for concrete and metal substrates in wastewater treatment plants, cooling towers, water reservoirs, etc.

ADVANTAGES

- Simple and easy application.
- Very good bonding to concrete and metal substrates.
- Good chemical resistance against soil salts, alkalis and acids diluted, waste water, seawater, etc.

APPLICATION INSTRUCTIONS

Preparation of the surface
The concrete surface must be sound and strong and be clean, free of dust, oils and with less than 4% humidity. The surface must be flat and with slight roughness. Metallic surfaces must be cleaned by sandblasting to eliminate superficial corrosion and must be degreased.

Mixing
MAXEPOX® TAR is supplied in pre-weighed sets. The hardener, component B is poured into the resin, component A. To ensure the proper reaction of the two components, make sure all of component B is added. The mixture can be done manually or using a low speed drill until achieving a homogeneous product in colour and appearance. Avoid introducing too much air when mixing. Once mixed, it is recommended to pour all of the contents into a clean container.

Application
The substrate must be at a minimum temperature of +10ºC and not above +30ºC. Application of ***MAXEPOX® TAR*** can be done using a brush, roller or air-less gun, in two successive coats with a minimum time lapse of 6 hours and maximum of 48 hours between coats. The pot life at 25ºC is over 6 hours, increasing at lower temperatures and decreasing at higher temperatures.

Application conditions
The ideal working temperature is between 10 ºC and 30 ºC. Applications below 10 ºC increase greatly the drying and curing time. Do not apply at temperature below 5 ºC or if lower temperature is expected within 24 hours after application. Do not apply if rain is expected 24 hours after application. With temperatures above 30 ºC, try to protect the application against direct sunlight.

Curing
Allow the coating to cure a minimum of 7 days at 20 ºC and 50% R.H. before putting into service. Protect during application from direct sunlight with temperatures above 30 ºC. Lower temperatures and/or higher R.H. increase curing time.

Protect application from rainfall, condensation, dew, humidity and/ or water contact during the total curing time. In that case, brownish stains affecting the aesthetic finish of the coating may appear. These stains do not affect to the waterproofing and mechanical properties.

Cleaning
Clean tools and equipments with ***MAXEPOX®***

SOLVENT immediately after use.

CONSUMPTION

Total coverage is approximately 0,4 to 0,8 kg/m^2 in two layers, depending on substrate conditions.
This estimated consumption may vary depending on porosity, substrate conditions and application method. A preliminary test on-site will determine the consumption exactly.

PACKAGING AND COLOR

MAXEPOX® TAR is supplied in pre-weighed sets of 31 kg and it is available in black colour only.

STORAGE

Eight months in its original unopened container, in a dry covered place protected from humidity, direct sunlight and frost, at temperatures above 5ºC and below 30ºC.

SAFETY AND HEALTH

Do not work without the protection of rubber gloves and safety goggles. In case of eye contact, rinse immediately with abundant clean water but do not rub. In case of skin contact, wash with abundant soap and water. If irritation persists, seek medical assistance. If ingested, seek immediate medical assistance. Do not induce vomiting.

Flammable volatile solvents are components of ***MAXEPOX® TAR***, so the usual precautions for transport and manipulation for this kind of product should be followed. Do not smoke in working areas. Keep away packaging from heat and ignition sources.

In closed areas with little ventilation, provide mechanical ventilation and use appropriate masks.

In case of spillage, retrieve using sawdust, sand or other absorbent material. Do not pour into sewers, rivers, canals or ground.

For further information, Safety Data Sheet of ***MAXEPOX® TAR*** is available by request.

Disposal of the product and the empty packaging must be by the final user and according to official regulations.

TECHNICAL DATA

Product characteristics		
CE Marking, EN 1504-2 Description. Coating for protection of concrete. Coating (C). Principles / Methods. Protection against ingress with coating (Principle 1-PI / 1.3), Moisture control with coating (Principle 2 –MC / 2.2)		
General appearance and colour for component A	Black viscous liquid	
General appearance and colour for component B	Yellow clear liquid	
Density for mixture A+B, (g/cm^3)	1,50 ± 0,10	
Application and curing conditions		
Temperature / Relative Humidity, (ºC / %)	Ambient	Substrate
	> 10 / <85	> 10 / < 4
Pot Life at 10 ºC / 20 ºC / 30 °C, (min)	90 / 30 / 10	
Drying time to touch at 20 ºC, (h)	3 - 6	
Minimum/Maximum waiting time between coats at 20 °C, (h)	6 - 24	
Total curing time at 20 ºC and 50% R.H. for immersion in water, flooding test or covering with tiles, renders or back-fillings, (d)	7	
Cured product characteristics		
Water penetration under direct pressure, (MPa)	> 0,6	
Permeability to chloride ion diffusion, (m^2/s)	$3,9 \cdot 10^{-12}$	
Water absorption, ISO 62 (%, by weight)	0,72	
Tensile strength, EN-ISO 527 (MPa)	5,31	
Elongation at break, EN-ISO 527 (%)	4,5	
Adhesion on concrete, EN 24624 (MPa)	3,8	
Adhesion on wet concrete, EN 24624 (MPa)	2,4	
Abrasion resistance (Taber Index), ASTM D-4060	500 Cycles	1.000 Cycles
Wearing index (Abrading wheel: CS-10 & Load: 0,5 kg)	0,14	0,09
Consumption*		
Consumption per coat / total application, (kg/m^2)	0,2 – 0,4 / 0,4 – 0,8	

***** 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

CHEMICAL RESISTANCE

Sodium carbonate solution (1%, by weight)	Suitable for permanent contact
Hydrochloric acid solution (1%, by volume)	Suitable for permanent contact
Bleach solution (1%, by volume)	Suitable for permanent contact
Phenol solution (1%, by volume)	Suitable for permanent contact
Ammonium sulphate solution (5%, by weight)	Suitable for permanent contact
Fuel oil	Suitable for spills
Lactic Acid	Suitable for spills

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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ISO 9001
ISO 14001
BUREAU VERITAS Certification
BUREAU VERITAS 1828
Nº ES021542/ES021543