DRIZORO® Construction Products

MAXEPOX® ASPHALT

CE

EPOXY COATING FOR SEALING AND PROTECTING ASPHALT PAVEMENTS

DESCRIPTION

MAXEPOX® ASPHALT is a two-component, solvent-free epoxy formulation, ideal as a finishing and protective coating on asphalt pavements.

APPLICATION FIELDS

- Coating on asphalt pavements indoors (garages, mechanical workshops, etc.).
- Multi-layer anti-slip coating on outdoor asphalt pavements with aggregate sprinkling (car parks, cycle lanes, loading/unloading areas, etc.).
- Chemical protection in areas exposed to spills and contact with fuels, at petrol stations, car parks, airports, repair hangars, etc.
- Surface protection against asphalt abrasion caused by softening in hot temperatures and/or heavy traffic.

ADVANTAGES

- Very good mechanical properties and abrasion resistance against heavy traffic from vehicles, lorries, forklifts, etc.
- Excellent adhesion to asphalt mixes.
- Good chemical resistance to fuels in general: petrol, diesel, kerosene, JET-A1, etc., as well as to de-icing salts, diluted acids or bases.
- Easy to apply by brush, roller or harrow.
- Environmentally friendly: non-toxic, non-flammable and solvent-free product. Suitable for poor ventilated areas.

APPLICATION INSTRUCTIONS

Surface preparation

The substrate to be coated must be solid, firm, rough and sound, with no poorly adhered parts, surface slurries and as uniform as possible. It must also be clean, free of paint, efflorescence, loose particles, grease, dust, plaster, etc., or other substances that could affect the adhesion of the product. There must be no rising damp due to capillarity. Surface moisture must be less than 4 %.

Expansion joints and fissures/cracks subject to movements, once opened must be sealed with a suitable sealant of ***MAXFLEX®*** range.
Not recommended for application on asphalt pavements that have been curing for less than 28 days.

Mixing

MAXEPOX® ASPHALT is supplied as a pre-weighed two-component set. Premix the components separately, and then the hardener, component B, is poured into the resin, component A. To ensure the correct reaction of both components, be sure to pour in all of component B. Mixing manually or preferably using a low-speed drill (300-400 rpm. maximum), fitted with a mixer suitable for liquids for about 2-3 minutes until achieving a homogeneous product in colour and appearance. Do not mix for prolonged period nor use high-speed mixer, which may heat the mixture or introduce air bubbles.
Check Technical Data Table for product pot life (30 minutes at 20°C).

Application

The material is preferably applied with a rubber squeegee to facilitate its penetration into pores and cavities, spreading it across the surface. It is then smoothed with a short-bristle roller, pressing lightly onto the substrate, with a consumption of 0,80 kg/m² to 2,5 kg/m² depending on the roughness of the surface.
If a non-slip finish is required, apply a first coat of ***MAXEPOX® ASPHALT*** to the desired thickness, and while it is still fresh, spread clean, dry silica aggregate from the ***DRIZORO®SILICA*** range or similar, with the desired grain size, until the surface is completely covered (1,5 to 2,0 kg/m² of aggregate). Once this layer has dried, which takes a minimum of 6 hours at 20°C, sweep or vacuum up any loose aggregate. Lower temperatures will

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increase the drying time. The fixed aggregate can be left exposed as a UV barrier outdoors.

Optionally, if sealing over the aggregate is required, a final coat of ***MAXEPOX® ASPHALT*** can be applied indoors at a consumption rate of 0,4-0,6 kg/m² depending on the size of the aggregate. If you wish to apply a UV-stable sealing layer outdoors, this can be done with ***MAXURETHANE® 2C*** at a consumption rate of 0,4-0,6 kg/m².

Application conditions
Do not apply if rain, contact with water, condensation, dampness and dew is expected within the first 24 h after application.
The optimum working temperature range is 5°C to 30°C. For cold temperatures between 5°C and 10°C, drying time may be significantly increased, so curing can be accelerated by adding 2 to 5 % by weight of ***MAXEPOX® CAT*** catalyst. Do not apply at substrate and/or ambient temperatures below 5°C or if these are expected within the first 24 hours of curing. Likewise, do not apply to frozen or frosted surfaces.

The substrate and ambient temperatures must be at least 3°C above the dew point. Similarly, do not apply when the relative humidity is above 85 %. If the temperature is below or the relative humidity is above the indicated values, the appropriate conditions must be created by means of hot air and air renewal. Applications above 30°C may have problems with excess reactivity and heat release, as well as a significant reduction in the pot life of the mixture.

Curing
Allow to cure a minimum of 24 hours for pedestrian traffic and 48-72 hours for car traffic at 20°C and 50 % R.H.
The use of ***MAXEPOX® CAT*** catalyst will enable these times to be met at temperatures below 15°C.

Cleaning
All mixing and application tools must be cleaned immediately with ***MAXEPOX® SOLVENT*** after use. Once product cures, this can only be removed by mechanical means.

CONSUMPTION

The estimated total consumption of ***MAXEPOX® ASPHALT*** is 0,80 kg/m² to 2,5 kg/m² depending on the roughness of the surface.

Consumption may vary depending on the composition of the asphalt pavements, its texture, porosity and substrate conditions, as well as the application method. Perform an on-site test to determine the exact value.

IMPORTANT INDICATIONS

- Do not apply on substrates subject to rising humidity or negative water pressure. Surface moisture content of substrate must not exceed 4 %. Allow sufficient time for the substrate to dry after rain, dew, condensation or other inclement weather, as well as after cleaning the substrate.
- Allow at least 28 days curing time for new asphalt mixes before application.
- Applications on recent asphalt surfaces may release solvents and/or compounds that alter the colour and adhesion of ***MAXEPOX® ASPHALT.***
- Do not apply when relative humidity exceeds 85 %, as this may result in poor curing and/or loss of colour intensity.
- Do not use any solvent other than the one specified or modify the recommended mixing ratio, as this may cause alterations in the curing process or even inhibit it. Do not add compounds other than those specified.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXEPOX® ASPHALT is supplied in pre-weighed two-component set of 25 kg (Component A in 18,75 kg and Component B in 6,25 kg).
It is available in grey, red, green, white and blue colour. Other colours are available upon special request.

STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture, frost and direct sunlight, with temperatures between 5°C and 35°C.

Long-term storage at temperatures below those indicated may cause the product to crystallise and/or increase in viscosity. In this case, defrost it by heating it slowly to a moderate temperature while stirring gently in order to restore the product to its original appearance, colour and texture.

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SAFETY AND HEALTH

MAXEPOX® ASPHALT is not a toxic product but direct contact with skin and eyes must be avoided. 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 ***MAXEPOX® ASPHALT***.

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		
CE Marking, UNE-EN 13813 Description: Synthetic resin screed. EN 13813 SR-B2,0-AR0,5-IR24,5. Uses: Indoors for sealing and protecting asphalt pavements.		
General appearance and colour for component A	Pigmented viscous liquid	
General appearance and colour for component B	Clear yellowish liquid	
A:B mixing ratio, (by weight)	3:1	
A+B solid content, (%, by weight)	100	
Density A+B, (g/cm^3)	1,76 ± 0,10	
Application and curing conditions		
Application conditions, T (ºC) / R.H. (%)	Ambient:	Support:
	> 5 / < 85	> 5 / < 4
Pot Life at 10°C / 20°C / 30°C, (min)	90 / 30 / 10	
Drying-time to touch at 20 ºC, (hours)	> 6	
Minimum/maximum waiting time between coats at 20°C (hours)	6 / 24	
Curing time at 20°C and 50 % R.H, (h) - Pedestrian traffic: - Car traffic:	 24 48-72	
Cured product characteristics		
Flexural strength at 28 days, EN 13892-2 (MPa)	35,5 (F30)	
Compressive strength at 28 days, EN 13892-2 (MPa)	49,2 (C40)	
Adhesion on concrete at 28 days, EN 13892-8 (MPa)	3,6 (B2,0)	
Impact resistance, EN ISO 6272 (Nm)	IR24,5	
BCA wear resistance, EN 13892-4 (µm)	10 (AR0,5)	
Modulus of elasticity in bending (kN/mm^2)	0,9 (E1)	
Consumption*		
Consumption for total application, (kg/m^2)	0,8-2,5	

* Consumption may vary depending on the characteristics of the substrate and the application method. Perform an on-site test to determine the exact consumption.

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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