



MAXELASTIC®

PUR-BIT

BITUMEN-POLYURETHANE ELASTOMERIC MEMBRANE FOR WATERPROOFING

DESCRIPTION

MAXELASTIC® PUR-BIT is a one-component, liquid product ready to use, based on bitumen-polyurethane resin that provides a protective waterproofing elastomeric membrane for concrete.

APPLICATION FIELDS

- Elastic waterproofing of roofs, terraces, balconies under-tile, planter boxes and other outdoor non-exposed surfaces.
- External waterproofing and protection of underground structures such as foundations, pipelines, retaining walls, etc.
- Waterproofing of indoor wet areas such as bathrooms, wardrobes, kitchens, etc.
- Waterproofing and protection of masonry, wood and metal surfaces on non-exposed areas.

ADVANTAGES

- Very high elasticity at both high and low temperatures, enabling to absorb thermal movements of substrate with different weather conditions as well as vibrations.
- Very good elasticity recovery compared to common soft bitumen coatings.
- Excellent crack-bridging ability, acting as anti-fracture membrane on substrate. Seals and fills cracks permanently.
- Seamless and continuous waterproofing membrane without joints, overlapping and connections.
- Excellent adhesion on concrete. Does not require special primers.
- Higher chemical resistance than concrete.
- Withstands a wide temperature range, from – 40°C to 85°C.
- Long-lasting protection compared to bitumen coatings, maintenance-free.

- Ready to use and easy applied manually or by airless spray.
- Cold-applied membrane. Requires no hot-melt equipment.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be sound, dry and clean, free from dirt, old paints, gypsum, efflorescence, greases, oils, as well as de-moulding agents, curing agents or any coating, which could affect the adhesion.

Surface damages such as defects, cavities, honeycombs, peelings and unsound areas should be restored with a structural repair mortar such as **MAXREST®** (Technical Bulletin n° 4). Remove all concrete around structural reinforcement affected by corrosion, clean of rust or scale and then, coat with the oxide converter and anti-corrosion protection **MAXREST® PASSIVE** (Technical Bulletin n° 12).

Metallic surfaces must be cleaned by sandblasting to eliminate superficial corrosion and rust, and also must be degreased, dried and free of dust.

Expansion joints and fissures subject to movements once opened up and clean, should be treated with a suitable sealant such as type **MAXFLEX®**.

Application

MAXELASTIC® PUR-BIT is supplied ready to use. Previous to application, stir the content of the packaging using a dry and clean tool or preferably by mechanical means with a slow speed drill (400 – 600 rpm) in order to get a homogeneous paste.

Over porous substrates, the first coat can be diluted with 5-10 % of **MAXSOLVENT®** for better penetration. For applications over low porosity substrates, glass, glazed tiles, metal, etc. use the

silane-based primer **MAXPRIMER® PUR** (Technical Bulletin n° 231).

Apply **MAXELASTIC® PUR-BIT** by brush, roller, airless spray or rubber squeegee in two coats, with a coverage of 0,5 - 0,9 kg/m² per coat (1,0-1,9 kg/m² totally) allowing to be tack-free with a drying-time from 8 to 12 hours between coats, depending on temperature conditions. If required, additional coats are allowed letting to be tack-free between coats. On vertical surfaces apply in successive coats with consumption of 0,3 kg/m² per coat to avoid the slump.

For expansion joints, construction joints and cracks subject to movements, it can be filled and sealed with either polyurethane sealant such **MAXFLEX® 100 LM** (Technical Bulletin n° 65) or a mix of 1 part in weight **MAXELASTIC® PUR - BIT** with 1 part in weight of dry silica sand **DRIZORO SILICA 0204** or similar (maximum silica size 1,00 mm). Once it has cured for 3 days, apply a first coat with 0,6-0,8 kg/m² of **MAXELASTIC® PUR-BIT** and spread a strip of glass-fibber or polyester veil **DRIZORO® VEIL** (Technical Bulletin n° 209), with 6–8 cm wide, ensuring it is completely embedded on this fresh coat. Once it dries, apply the second coat of **MAXELASTIC® PUR-BIT** with a load from 0,6 to 0,8 kg/m². Other outstanding points such as corners, coves and penetration pipes require reinforcing **MAXELASTIC® PUR-BIT** with similar method.

Surfaces to be tiled, improve the adhesion of the later tiling mortar spreading dry and clean sand (size 0,2-0,5 mm and consumption 1,0-1,5 kg/m²) on the last fresh coat of **MAXELASTIC® PUR-BIT**. Once it is dry, sweep and vacuum surface to remove excess sand.

Application conditions

Do not apply neither below 5°C or when such temperatures are expected to drop within the 24 hours. Do not apply on frozen surfaces.

Do not apply **MAXELASTIC® PUR-BIT** above 90% of relative humidity. Surface and ambient temperature must be at least 3°C higher than dew point. Measure the relative humidity and dew point for applications carried out in proximities of marine environment. Do not apply if rainfall, dew, condensation or water contact is expected within 24 hours after application.

Curing

Allow a curing time of 7 days at 20°C and 50% R.H. before permanent water immersion. Lower

temperature or higher R.H. increase the curing time.

Cleaning

Use **MAXSOLVENT®** for cleaning tools and equipment immediately after use. Once it cures, product can only be removed by mechanical means.

CONSUMPTION

Apply two coats for a total coverage of 1,0-1,8 kg/m² (0,5-0,9 kg/m² per coat). Additional coats if required are allowed.

These figures may vary depending on porosity, texture, substrate conditions and application method. A preliminary test on-site will determine the coverage exactly.

IMPORTANT INDICATIONS

- Surface moisture content must not exceed 5%.
- Do not apply on substrates subject to rising humidity or negative water pressure.
- Allow sufficient time for the substrate to dry after rain, dew, condensation or other inclement weather and after washing surface.
- Allow new concrete and mortars a curing time of 28 days before application.
- Do not apply **MAXELASTIC® PUR-BIT** above 85% of relative humidity.
- Do not exceed the ratio recommended when mixing with **MAXSOLVENT®** and do not use any other solvent. Other solvents could modify or inhibit the curing process.
- Do not add aggregates, admixtures or any other compounds to **MAXELASTIC® PUR-BIT**.
- For other uses not specified on this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXELASTIC® PUR-BIT is supplied in 25 kg drums and it is available in black colour.

STORAGE

Nine months in its original unopened packaging in a dry and covered place, protected from frost and

direct sunlight, with temperatures between 5°C and 35°C. Storage at higher temperatures may result in an increase of viscosity.

SAFETY AND HEALTH

MAXELASTIC® PUR BIT is a flammable product so all storage, transport and handling precautions must be observed for this kind of product. Do not smoke in working areas and provide adequate ventilation. Keep away packaging from heat and ignition sources.

Skin and eye contact must be avoided. Safety goggles and protective gloves should be used during application. In case of skin contact, wash affected areas with soap and water. In case of eye contact, rinse thoroughly with clean water but do not rub. Seek medical attention if irritation persists.

Safety Data Sheet of **MAXELASTIC® PUR-BIT** is available by request.

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

TECHNICAL DATA

Characteristics of the product	
Appearance	Black paste
Density (g/cm ³)	1,4 ± 0,10
Characteristics of application	
Application conditions, T (°C)/R.H. (%)	> 5 / < 90
Drying time at 20 °C and 50 % of R.H. (h)	8-12
Putting into service at 20 °C and 50 % R.H. (d)	7
Characteristics of cured product	
Service temperature range (°C)	-40°C to 85°C
Elongation at break, ASTM D-412 (%)	600
Tensile strength, ASTM D-412 / EN-ISO 527-3 (MPa)	4,0
Adhesion on concrete, ASTM D-4541 (MPa)	>1,0
Low temperature flexibility, ASTM C-836	Approved
Shore-A hardness, EN-ISO 868-3	35
Consumption	
Consumption per coat / Total application (kg/m ²)	0,5-0,9 / 1,0-1,8

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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