



MAXELASTIC[®] BA

ANIONIC BITUMEN EMULSION FOR WATERPROOFING AND PROTECTION

DESCRIPTION

MAXELASTIC[®] BA is a water-based anionic bitumen emulsion, chemically modified with elastomers suitable for direct pressure waterproofing and protection of concrete surfaces, asphalt, cement, fibber cement, porous ceramic, etc., with high adhesion to the substrate, providing an elastic and waterproof coating.

APPLICATION FIELDS

- Waterproofing and protection of walls and foundations below the water table, subjected to direct pressure.
- Waterproofing of bridge decks.
- Waterproofing and protection of concrete structures for containment of non-potable water; dams, spillways and irrigation ditches and channels.
- Vapour barrier before applying insulation.

ADVANTAGES

- Good adhesion on common substrates in construction: concrete, cement mortar, porous ceramic, fibber cement, metal surfaces, asphalt, etc.
- High elasticity even at low temperatures. Low thermal susceptibility.
- Resistant to cement alkalinity.
- Vapour barrier.
- Very low VOC content.
- Easy to handle and easy to apply by brush, roller or by air-less mechanical means.

APPLICATION INSTRUCTIONS

Surface preparation

Surface to be waterproofed must be solid, strong, rough and healthy and as uniform as possible. It must also be clean, free of paint, efflorescence, loose particles, grease, release oils, dust, gypsum, etc., or other substances that could affect the adhesion. No rising damp. Surface moisture should be less than 4%.

Surface damages such as defects, cavities, honeycombs, peelings and unsound areas should be restored with a structural mortar such as **MAXREST[®]** (Technical Bulletin n°4).

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

Mixing

MAXELASTIC[®] BA is supplied ready to use. Previous to application, and stir the content of the packaging with an electric drill at low speed (300-400 rpm maximum) equipped with a mixer suitable for liquid for about 2 to 3 minutes until a homogeneous product in colour and appearance. Avoid excessive mixing time to heat the mass and introduce air. Add water if re-homogenize the product,

Application

MAXELASTIC[®] BA can be applied by brush, roller or spray, dilute with minimum amount of water that allows spraying, if required.

Apply uniformly a prime coating of **MAXELASTIC[®] BA** diluted with 50% water (product:water ratio= 2:1 w/w), with a consumption from 0,5 to 0,6 kg/m², and then allow dry completely (24 hours at 20 ° C) before applying the next coat. Applied pure **MAXELASTIC[®] BA** until complete the consumption specified according to the application. Minimum recommended consumption is 1,0 kg/m² per coat.

For non-slip finish, on previous primed surface apply a first pure coat of **MAXELASTIC[®] BA** with a consumption from 0,5 to 0,6 kg/m² and, while still fresh, spread clean and dry silica aggregate (0,2 to 0,8 mm size) on surface with a coverage from 1,0 to 1,5 kg/m². Once dry, apply a new coat of pure **MAXELASTIC[®] BA** with a consumption of 0,5 to 0,6 kg/m².

For reinforced coatings, on previous primed surface apply a first coat of **MAXELASTIC[®] BA** with a consumption from 0,8 to 1,0 kg/m² and, while still fresh, place the fibber-glass non-woven fabric **DRIZORO[®] VEIL M-100**. Once dry, apply the second coat of **MAXELASTIC[®] BA** with the same consumption, i.e. from 0,5 to 0,6 kg/m².

Application conditions

Do not apply when rain, contact with water, humidity, condensation, dew, etc., within 24 hours of the application are expected. Protect the coated surface from direct sunlight.

Optimum working temperature range is from 10°C to 30°C. Do not apply with surface and ambient temperature below 10°C or if lower figures are expected within 24 hours after application. Also, do not apply on frozen surfaces.

Surface and ambient temperature must be at least 3°C higher than dew point. Also, do not apply when relative humidity is above 85%. Measure the relative humidity and dew point close to the marine environment applications.

Applications above 30°C may have problems of excess reactivity, as well as a reduction in the lifetime of the mixture.

Curing

Allow a minimum curing time of 7 days at 20°C and 50% R.H. before putting into service, flooding testing or covering with dirt/gravel in foundations. Lower temperatures and/or higher R.H. increase curing time. With temperatures above 30°C, protect application from direct sunlight.

Cleaning

Tools and equipment can be cleaned with water immediately after use. Once the product dries, it can only be removed with **MAXSOLVENT[®]**.

CONSUMTION

Estimated consumption of **MAXELASTIC[®] BA** is from 1,0 to 2,4 kg/m², depending on the proposed solution and the number of layers to be applied. These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Do not apply on substrates subject to raising dampness or negative hydrostatic pressure. Prior to application, surface moisture content must not exceed 4%. Allow sufficient time for the substrate to dry after rain, dew, condensation or other inclement weather and after cleaning surface.
- For indoor applications, provide good ventilation conditions for curing.
- **MAXELASTIC[®] BA** is not suitable for applications in contact with solvents or hydrocarbons.
- For other uses do not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXELASTIC[®] BA is supplied in 17 kg drum, and black colour.

STORAGE

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

SAFETY AND HEALTH

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

Safety Data Sheet of **MAXELASTIC[®] BA** 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

Product characteristics		
<i>Anionic bituminous emulsion (Type EA) of chemically modified bitumen with elastomers according to UNE 104231</i>		
Appearance and colour	Viscous black liquid	
Viscosity –Brookfield (200 rpm, 25°C), NIE-008 (MPa·s)	> 500	
Particles Load, NLT-194	Negative	
Water content, NLT-137 (% by volume)	< 36	
VOC content, ASTM D2369 (g/l)	< 30	
Softening point, NLT-125 (°C)	> 45	
Elastic recovery at 25°C, NLT-329 (%)	> 35	
Elongation at break, ASTM D-412 (%)	400	
Application and curing conditions		
Minimum temperature / Relative humidity for application (°C /%)	Ambient:	Substrate:
	> 10 / <85	> 10 / < 4
Waiting time between applications at 20°C, (h)	24	
Total curing time at 20°C & 50% R.H. for flooding test/permanent immersion, (d)	7	
Consumption*		
Consumption per coat / total application, (kg/m ²)	0,5-0,8 / 1,0-2,4	

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

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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