

GB 100 BLOCK



Description

GB 100 BLOCK is an adhesive and waterproofing mass, made of polymers (APP type) highly resistant to ageing; pre-fabricated in blocks.

Areas of application

GB 100 BLOCK are designed for any applications where it is necessary to get complete adhesion of the bituminous surface to the supporting structure or where this is particularly rugged.

They can be successfully used to proof a wide range of civil and industrial works, particularly where there is a need for resistance to mechanical stress and static and dynamic drilling such as bridges, viaducts, parking lots and so on.

Due to their particular formula, GB 100 BLOCK, made of polymer, are compatible with all PLUVITEC membranes, both APP and SBS based.

Use of product

Generally, these are used to paste the first layer of bitumen membrane to the concrete of the road planked structure. GB 100 BLOCK have the following advantages:

- they can be applied to uneven surfaces;
- are resistant to temperature variations;
- have a great adhesive power to the supporting structure before and after ageing.

Storage and maintenance

The original packaging has been designed for the ideal storage of the product. Once opened, the goods must be kept away from the sun and other heat sources.

Lifting and hoisting

- Pallets are suitable for ordinary warehouse movement but not to hoisting.
- Pallets must be lifted with a crane using the special lifting accessories.

Preparation of application surface

The application surface must be dry and clean. The concrete must have had a 2 week maturing period with a relative humidity of maximum 5%. Cohesion of concrete: extraction test: 1 MPa. Prepare the concrete support, including verticals and details, with suitable bituminous primer PRIMERTEC AD or ECOPRIMER (relative humidity < 5%) and PRIMER EPOX with quartz dusting on surface for situations where relative humidity is > 5%, this to eliminate any dust and improve adhesion. Allow the surface to dry before proceeding with next stages of application. For pre-casted structures, where there are spaces between the various elements, apply a suitable «pontage strip» to bridge the open spaces. In the presence of structural joints, pre-fabricated panels or metal decks, always foresee suitable expansion joints.



Prepare the boiler either with or without a mechanical or manual agitator, to melt the blocks, in accordance to the



manufacturer instructions.

Filling of boiler and recommendations

Remove the blocks to be used from the cardboard box.

Position the blocks inside the boiler before switching it on, normally a min. of 3 to a max. of 6 blocks depending on the size of boiler, turn up the gas setting to reach correct melting point avoiding to allow the compound to boil.

If using a boiler with a manual or mechanical agitator, recommended, wait until the blocks have completely melted. Once completely melted, fill buckets or pouring can and pour on to the application surface.

If further material is required, slowly add one new block to avoid splashing inside the boiler before it is empty.

GB 100 BLOCK can have different melting times depending on the type of boiler used.

It is always recommended to close the boiler lid as spontaneous combustion may occur when the hot fumes come in to contact with the cooler surrounding air. Excessive heating may cause solidification, overflowing or spraying of the compound.

The application of the mastic takes place by melting and must be performed using the special agitated melter and temperature-controlled.

- Operating temperature / casting: $\pm 160^{\circ}\text{C}$
- Critical temperature: max 180°C for 2 hours
- Maintenance temperature in boiler: $150/170^{\circ}\text{C}$
- Maximum time at temperature of maintenance: 6/8 hours.

Consumption: $2/3 \text{ kg} / \text{m}^2$

Packaging: 15 kg blocks

60 pcs. x pallets / 900 kg

Application of the melted GB 100 Block

Apply the melted GB 100 BLOCK to obtain a smooth layer on the application surface using a suitable Squeegee, quantity and method to saturate and be able to level the same. Avoid using too much material which may accumulate and lower the adhesion level of the modified bitumen membrane.

Final finish

If required, apply a superficial layer of dry sand over the layer of GB 100 BLOCK.

Technical data

Technical characteristics	GB 100 BLOCK
Cold flexibility *	-10 °C
Resistance to cutting	$\geq 8.0 \text{ N/cm}^2$
Peel resistance at 90° on concrete	100 N

* (R = 15 mm, 5 s, 3 mm thickness).

The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.