

## BITUMCOL

### Fibre-reinforced bituminous adhesive for insulation panels

**Description:** Solvent-based fibre-reinforced adhesive, formulated with bitumen, selected elastomeric resins and special additives.

**Advantages:**

- It is applied cold.
- Ready for use and easy to apply.
- Use of extruders is not required.

**Applications:** Suitable for gluing insulation panels made of polystyrene, polyurethane, perlite, mineral or cellulose fibres on concrete, cement, metal, wood and polymer-bitumen membranes.

**Surface preparation:**

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. Dusty surfaces must be treated beforehand with a coat of bituminous primer.
- Best applied at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

**Application:**

- The product is ready to use; during winter heat it up by water bath or use Bitumcol INV.
- Bitumcol can be applied over the entire surface, in spots or strips by spatula.
- In case of high temperatures, we recommended first spreading the product in the hot insole to facilitate the evaporation of any aggressive solvents; then wait at least half an hour before applying the insulation panels.
- In order to optimise the adhesion of the product, it is advisable to wait for the insulation panels to be installed when the product is dust-free, i.e., when most of the solvent has evaporated. However, it is preferable to carry out preliminary adhesion tests.
- Use common synthetic or nitrous thinners or white spirit to clean tools.

**Consumption:**

- When laying in strips, these should be approximately 4 cm wide and a minimum of 4 per m<sup>2</sup> for a consumption of 650-850 g/m<sup>2</sup> depending on the type of surface.
- When laying in spots, around 50-80 g of Bitumcol will be needed for each spot, distributing 10 spots per m<sup>2</sup>.
- Near the perimeter of emerging structures and of reliefs in general, the number of strips or points will be doubled for an area approximately 1 m wide; furthermore, even in the case of spreading over the entire surface, the bonding is integrated with mechanical fasteners.

**Warnings:**

- It is important that application for roofing is performed up to a maximum slope of 5%. For greater slopes, we recommend Bitumcol Plus and the bonding must be supplemented with mechanical fasteners.
- Do not use indoors or in non-ventilated premises.
- Do not mix with cement or water.
- We recommend using breather vents on large horizontal walls in the case of application of the product between the bituminous membrane and insulation panels.
- We recommend strictly using the indicated quantities, as excessive use may attack the surface of the polystyrene insulation and compromise panel adhesion.
- In case of application of the product between two waterproof surfaces (e.g., polymer-bitumen membrane and insulation panel or between two insulation panels), the complete drying time is extended (it can be as long as a few weeks) and depends on various factors such as temperature and humidity, the quantity of product applied, and the waiting time before covering.

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- Do not apply to wet or very damp surfaces.
- In case of presence in the original packaging of a bottom layer, mix the product until completely uniform, before using it.
- Do not use on surfaces subject to rising damp or strong water pressure.
- Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
- Store in tightly sealed original packaging.
- Flammable product.
- Do not expose to heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.
- Consult the information at the bottom of this document.

**Packaging:** 1, 5, 10, 20 and 25 kg metal pails.

**Other versions:** Bitumcol INV is available; it is a version of the product with lower viscosity, which favours use in colder climates.

### Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content ( <i>m/m at 130 °C</i> )	EN ISO 3251	(84-92)%
Brookfield viscosity ( <i>at 25 °C, spindle 7; 5 rpm</i> )	EN ISO 3219	(4600±900) P
Density ( <i>at 25 °C</i> )	EN ISO 2811-1	(1.42-1.50) kg/L
Dust-free time		(30-60) minutes*
Complete drying time**		(24-48) hours*
Closed-cup flash point	ASTM D3828-87	> +40 °C

\* Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

\*\* Value to be understood in the case of application of the product on a porous, non-waterproof surface (e.g., cement, concrete, wood).

The advice and technical information provided represent HA ITALIA S.p.A.'s best knowledge of product properties and use. Considering the different situations of use of the products and factors beyond our control (media, working conditions, failure to comply with instructions), we cannot be held responsible for the results obtained. Before using the product, anyone who intends to make use of it is required to determine whether it is suitable for the intended use and assumes full liability for whatever may arise from its use.

**HA Italia disclaims any and all liability arising from failure to observe the warnings mentioned in this data sheet and failure to comply with the requirements set out in the safety data sheet.**

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