

ASFALTMULL 2000

Cold mix asphalt with synthetic resins

Description: Water-based bituminous waterproofing paste modified with special resins.

Advantages:

- Good resistance to saline solutions.
- Easy cold application.
- Good resistance to chemicals, fumes, gases, and vapours.
- Superior adhesion and elasticity compared to normal bituminous emulsions.
- Excellent resistance to acid and alkaline solutions.
- Resistant to aging.
- Odourless, non-flammable product.
- Non-toxic product, free from solvents.

Applications:

- It is suitable for waterproofing concrete structures of foundations and walls against infiltration and soil moisture.
- Repair and seal non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
- Protection against chemicals.
- Waterproof and protect internal and external, horizontal or vertical surfaces made of cement, fibre cement, wood, brick, asphalt, felt, etc.
- Internal coating of concrete tanks and reservoirs.
- Bonding of insulation panels into the perimeter insulation against the ground.
- It is particularly suitable where the use of solvent-based products is prohibited.

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 solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
- It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
- Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

Application:

- Mix Asfaltmull 2000 before use.
- Apply as is by broom, brush, airless spray or roller.
- To improve product performance, we recommend applying two coats. To improve penetration and facilitate adhesion of subsequent coats, it is advisable to dilute the first coat with water. The dilution ratio (water:asfaltmull) varies according to the absorption of the substrate from 1:1 to 1:6. Subsequent coats should be applied without diluting.
- The second coat should be applied when the first is perfectly dry.
- At 25 °C the product is completely dry after 6 hours (depending on the surface and the quantity of product applied).
- Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.

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- To fasten insulation panels, to make thicker waterproofing layers, or to speed up the drying reaction, cement or sand and cement mixtures can be added to Asfaltmull 2000. Do not exceed 5% in weight of cement compared to Asfaltmull 2000 (20 kg of Asfaltmull 2000 plus 1 kg of cement) in order to avoid excessive viscosity of the mass. The amount of sand to be added depends on its grain size and to the thickness to obtain. A sand to cement ratio of 2:1 is normally used.
- If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
- After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption depends on the porosity of the surfaces to be treated and varies between 0.5-1.0 kg/m² (per coat).

- Warnings:**
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is $\leq 5\%$ by weight (for screeds with a density of 2000 kg/m³).
 - Apply the product on the side of the structure exposed to water (water stress under positive pressure).
 - Do not use to coat surfaces in contact with drinking water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails.
200 kg metal drums.

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Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Dark brown (Black once dry)
Shelf life in closed original packaging		12 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(57-63)%
Brookfield viscosity (<i>at 20 °C, spindle 5; 10 rpm</i>)	EN ISO 3219	(28,000±6,000)cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(0.95-1.01) kg/L
pH (<i>at 20 °C</i>)		9.0-11.0
Drying time		6 hours*
Waiting time for applying the next coat		12-24 hours*
Complete drying time		2 - 4 days*

**PERFORMANCE PROPERTIES - EN 1504-2
SURFACE PROTECTION SYSTEMS FOR CONCRETE
(C COATINGS – PRINCIPLES: PI-MC-IR)**

Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

* 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.



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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