

MAXDAN

Stable bituminous emulsion of doughy consistency.



MAXDAN is stable bituminous emulsion and doughy consistency. Composed of bituminous tiny particles in a water solution, containing an inert colloid, which permanently ensures the stability of the product. When the water solution evaporates, the MAXDAN emulsion turns into a bituminous film.

Presentation

- Colour: Dark brown
- Yield (kg/m²): 0.5
- Product code: 311033

Technical Data

Concept	Value	Standard
Contained in water (%)	50	-
Min application temperature (°C)	+5	-
Drying time at 20-25 °C and 50% relative humidity (hours)	24	-
Toxicity	NULA	-

Additional Technical Data

Concept	Value	Standard
Density at 20 °C (g / cm ³)	0.9-1.1	-
Inflammability	NULA	-

Standards and Certification

- In accordance with UNE 104231:1999 Waterproofing. Bituminous And Bituminous Modified Materials. Asphalt Emulsions.

Scope

- In the case of renovating old, self-protected bituminous waterproofing with slate or mineral granules, it can be used as a primer before applying the new bituminous waterproofing system. In bonded systems, the bituminous sheet is welded in its entirety, so the entire surface must be primed. In non-bonded or floating systems, the bituminous sheet is only welded at the singular points (parapets, drains, expansion joints, etc.), and these elements must be primed.
- Primer and preparation of surfaces where a bituminous sheet is to be welded, on both porous and non-porous surfaces.
- Priming and preparation of porous surfaces that will later be waterproofed or treated with asphalt products.
- Protection from dampness in walls and partition walls.
- Dampness protection of the external surface of concrete retaining walls and buried foundations, acting on the side in contact with the ground.
- Production of asphalt mortars for screeding on asphalt waterproofing.

Advantages & Benefits

- High film thickness.
- Good durability.
- Good chemical resistance to saline water and weak acids and even weak bases.
- Doughy consistency.
- Asphalt mortars are less rigid and more plastic than conventional mortars.
- A paste-like product with a uniform appearance and cold application that hardens by evaporation of the water it contains. Once applied and dried, it forms a continuous film.
- Little thermal variation.
- Easy application.
- Great bonding.
- Insoluble once the film dries.
- Asphalt mortars have the advantage over conventional mortars in that they put less stress on bituminous waterproofing.
- It does not crack in the cold, nor does it flow in the heat.
- Can be applied on wood.
- Chemical resistance.
- Waterproof.
- It can be applied with a brush, paintbrush or roller.
- It can be applied in closed rooms.
- Totally stable and long lasting.
- Solvent free.

Instruction for Use

Preparation of the substrate:

State of the substrate: It must be clean of dust, grease, paint residues, plaster and foreign bodies.

Substrate preparation: Loose or poorly adhered particles must be removed, so it is recommended to clean the surface to be treated. Cracks, cracks and roughness shall be filled with MAXDAN, avoiding voids or

hollows that may break the bituminous film once it has been formed. If necessary, the surface shall be regularised with a mortar that shall be properly trowelled.

Type of substrate: MAXDAN should not be applied on polished surfaces as adhesion failures may occur.

Substrate moisture: MAXDAN can be applied on dry or damp surfaces, but without water run-off. On very absorbent surfaces or with applications in hot weather and in the sun, it is advisable to water the surface in order to avoid that the water of the emulsion is absorbed or evaporates too quickly, which could favour the formation of cracks in the film.

Drying time: It depends on the ambient temperature, sunshine and relative humidity.

Recommended minimum waiting time between coats: Wait about 24 hours.

Application tools: It can be applied by brush, brush or roller.

Minimum application temperature: MAXDAN should not be installed when the temperature is below + 5 °C.

- Priming and preparation of porous surfaces where a bituminous sheet is to be subsequently welded. Apply a coat of MAXDAN, diluted with water in a proportion of approximately 10-20%, making sure that the pores are well impregnated. The approximate yield will be 0.3-0.5 kg/m². In adhered systems, the bituminous sheet is welded in its entirety, so the entire surface must be primed. In non-bonded or floating systems, the bituminous sheet is only welded in the singular points (parapets, drains, expansion joints, etc...), and these elements must be primed.
- Restoration of old self-protected bituminous waterproofing with slate or mineral granules. Once the self-protected sheet has been swept and cleaned, MAXDAN shall be applied as described in the previous section. Subsequently, the new bituminous waterproofing system shall be applied. In adhered systems, the bituminous sheet is welded in its entirety, so the entire surface must be primed. In non-bonded or floating systems, the bituminous sheet is only welded at the singular points (parapets, drains, expansion joints, etc.), and these elements must be primed.
- Priming and preparation of porous surfaces that are subsequently to be waterproofed or treated with asphalt products. Apply a coat of MAXDAN, diluted with water in a proportion of approximately 10-20%, making sure that the pores are well impregnated. The approximate yield will be 0.3-0.5 Kg/m².
- Protection against humidity of the external surface of concrete retaining walls and buried foundations. A first coat of primer is applied with MAXDAN (see application as a primer coat). Subsequently, at least two more coats must be applied, crosswise, also with MAXDAN. The approximate coverage of each coat is 0.5 kg/m². Before applying one coat, check that the previous one is completely dry.
- Protection against damp in walls and party walls. Proceed as described in the previous section.
- Making asphalt mortars for screeding on waterproofing. As a guideline, the proportions of the materials are 2 parts by volume of MAXDAN, 4 parts of river sand, 1 part of cement and the necessary water to achieve the desired consistency.

Indications and Important Recommendations

- Before using the product, stir well until it is perfectly equal.
- In case of refurbishment, chemical incompatibilities with old waterproofing systems consisting of PVC membranes, modified tar-based mastics or any other, shall be taken into account, and it may be necessary to remove them completely or to use suitable separating layers.
- This product may form part of a waterproofing system, so all the documents referred to in the Danosa Solutions Manual must be taken into account, as well as all the regulations and legislation that must be complied with in this respect.
- Work must not be carried out when weather conditions may be harmful, in particular when it is snowing or there is snow or ice on the roof, when it is raining or the roof is wet, or when there is a strong wind blowing.
- Do not install at temperatures below +5°C.
- Do not apply in rainy weather, as this could cause the emulsion to wash out, resulting in a product with poor internal cohesion.

- Never use as a roof waterproofing system.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- Polyurethane foam shall not be sprayed directly on top of the waterproofing without the use of a suitable separating layer (geotextiles, mortar layers, polyethylene film, etc).
- All material used shall be cleaned with water after handling. When this product is dry, it can only be removed with solvent.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".

Handling, storage and preservation

- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product will be used on a first-come, first-served basis.
- In case of silting, the material shall be stirred back to the initial state.
- This product is not toxic or flammable.
- Waterproofing work should not be carried out when the ambient temperature is lower than +5°C for hot air welding.
- Temperatures below 0°C may affect the quality of the product. With est.
- Danosa recommends consulting the safety data sheet for this product, which is permanently available at danosa.com, Knowledge Portal, or it can be requested from our Technical Department.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- For further information, please contact our Technical Department.

Notice

- The information contained in this document and any other advice provided, are given in good faith, based on DANOSA's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of DANOSA. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the DANOSA Technical Service before using the DANOSA products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. The product images used in our communications are indicative and may differ slightly in color and aesthetic appearance in relation to the final product. Orders are accepted in accordance with the terms of our current General Sales Conditions. DANOSA reserves the right to modify, without prior notice, the data reflected in this documentation. Website: **www.danosa.com** E-mail: **info@danosa.com** Telephone: **+34 949 88 82 10**