

FLEXOBITUM

One-component, water-based bitumen polymer liquid waterproofing material



PRODUCT DESCRIPTION

Water-based bituminous waterproofing material for high-speed spray applications. **Flexobitum** is a single-component, bitumen polymer liquid waterproofing material designed for multipurpose projects. After drying, it is solid, black, seamless, flexible, water-impermeable, and has excellent adhesive properties. It exhibits excellent expansion-contraction characteristics and is suitable for high-speed airless sprays.

Where to use

- For waterproofing of underground structures;
- In basements and cellars,
- In insulating and protecting underground concrete elements' drainage systems.

ADVANTAGES

- Permanent waterproofing;
- High efficiency;
- Environmental-friendly;
- High strength and elasticity;
- Easy to apply;
- Perfect adhesion;
- Suitable for versatile applications;
- For most of the applications, it is not necessary to combine it with an reinforcement mesh.

SUBSTRATE PREPARATION

Surfaces to be applied on should be smooth solid and dry, free from dirt, dust, oil, and loose particles. Absorbent surfaces should be primed with **Bituplan Primer** at a consumption rate of 250-300 gr/m². Allow 2-4 hours for the primer to dry.

APPLICATION PROCEDURE

Airless spray, brush, and roller are used for application. If multiple layers are to be applied, the previous layer should dry first. The waterproofing layer should be protected before backfilling soil. The backfill should be compacted manually with compactors 2 m away from the wall being insulated. Heavy compaction machines should not approach the insulated wall. The backfill should not contain stones larger than 40 mm. On horizontally insulated surfaces, a nonwoven geotextile felt with CBR puncture resistance of over 1000 kN should be laid, and then a screed or concrete should be poured on top.

Waterproofing in Underground Structures (On well-drained soil)

The first layer is applied at a rate of 1.5-2.5 kg/m² using airless spray, roller, or brush. Allow 6 hours to dry. The second layer application is done at a rate of 1.5-2.5 kg/m². Allow 12 hours to dry.

CONSUMPTION

Usage area	Dry film (mm)	Consumption (kg)
Areas exposed to ground moisture	3 mm	4,5 - 5 kg/m ²
Rising damp on walls in contact with the ground	3 mm	4,5 - 5 kg/m ²

PACKAGING

Flexobitum is supplied in 30 kg buckets.

STORAGE

Store it by avoiding direct sunlight and protecting from extreme temperature. In tropical climates it must be stored in air-conditioned areas. For cold climates, it should be stored in heated rooms with a temperature above +5°C. It must not be frozen.

If the above conditions are satisfied, product's shelf life is 12 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	paste
Color:	brownish black
Dry solids content (%):	70 (±2)

APPLICATION DATA (+20°C - %50 RH)	
Drying time:	1-5 days
Application temperature range:	from +5°C to +35°C

FINAL PERFORMANCE			
Technical Characteristics	Standard	Min. Requirements	Performance Results
Impermeability to water:	EN 15820	Class W1: ≥ 24 hours at 0.0075 N/mm ² ; dry thickness without reinforcement: ≥ 3 mm, Class W2A: ≥ 72 hours at 0.0075 N/mm ² ; dry thickness with reinforcement: ≥ 4 mm, Class W2B: ≥ 72 h at 0.0075 N/mm ² ; dry thickness without reinforcement: ≥ 4 mm	W1
Crack-bridging ability:	EN 15812	Class CB0: no requirement Class CB1: ≥ 1 mm; with dry thickness: ≥ 3 mm Class CB2: ≥ 2 mm; with dry thickness: ≥ 3 mm	CB2
Elasticity at low temperatures:	EN 15813	No cracking	Pass
Dimensional stability at high temperatures:	EN 15818	No slumping and dripping	Pass
Resistance to water:	EN 15817	1. No discolouring of water 2. No detachment of reinforcement if dry thickness ≥ 4 mm No change to the material according to EN 15817	Pass
Resistance to rain:	EN 15816	Class R0: no requirement Class R1: ≤ 24 hours; with wet thickness: ≥ 3 mm Class R2: ≤ 8 hours; with wet thickness: ≥ 3 mm Class R3: ≤ 4 hours; with wet thickness: ≥ 3 mm	R1
Reduction in the final thickness of coating:	EN 15819	$\leq 50\%$	Pass
Reaction to fire:	EN 13501-1	Euroclass	E

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.

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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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