

EUCOPROOF BITUM 2C F

2 COMPONENT, FIBRE REINFORCED, SOLVENT-FREE, LIQUID APPLIED BITUMEN WATERPROOFING MEMBRANE

FIELD OF APPLICATION

EUCOPROOF BITUM 2C F is a two-component, thixotropic, fibre reinforced, polymer modified, thick, bitumen-based waterproofing membrane with a high rubber content. The product is solvent-free. It consists of a base (component A) of a special bitumen emulsion and a reactive powder (component B). In adding the reactive powder to the bitumen component, it reacts, which leads to a faster rain protection and a faster reaction of the entire system. The water particles in the coating disappear, resulting in a solid, which, after curing, is waterproof, very flexible and crack-bridging. The pasty and stable material makes it possible to apply high layer thicknesses in one step by spraying or by using a trowel or a spatula. EUCOPROOF BITUM 2C F cannot be re-emulsified, even with prolonged water contact. In addition, the product is resistant to many common substances in soils. The waterproofing layer is seamless.

EUCOPROOF BITUM 2C-F is used for waterproofing underground structures (positive water pressure). It permanently protects underground structures against moisture, pressure-free groundwater, pressure-free water on earth-covered structures, splash water, ground moisture and capillary water in and under walls. The product is suitable for horizontal and vertical surfaces. The coating can also be used as an intermediate sealing (under cement floors) of floor slabs, balconies and terraces. The material adheres to all dry and slightly damp, mineral surfaces as well as bituminous surfaces. Protecting construction joints in concrete along the positive water side. A primer is always recommended.

- Outer walls of cellars.
- Underground structures.
- Foundations.
- Waterproofing of underground masonry along the positive water side.
- Waterproofing and coating construction joints below ground level.
- etc...

BENEFITS & FEATURES

- Two components.
- Thixotropic
- Fibre reinforced
- Sprayable
- Waterproof
- Fast drying
- Solvent free
- Very elastic
- Crack bridging
- Free of lightweight fillers such as polystyrene
- Not harmful to groundwater

APPLICATION

Application conditions

Before starting the application, it is necessary to test various parameters in order to achieve a good end result.

Compressive strength of the substrate: min. 25 N/mm².

Compressive strength of the substrate: min. 1.5 N/mm².

Please note that the application of a primer EUCOPRIM BITUM WP before the application of EUCOPROOF BITUM 2C-F is strongly recommended. The

primer can be applied on to a slightly damp surface. Moisture content in the substrate: ≤ 10% moisture.

The recommended application temperature of primer and waterproofing membrane is between +5°C and + 30°C. EUCOPROOF BITUM 2C-F cannot be applied (or cure) under rainy conditions or frost. In case of rain after application until full cure, the surface must be protected.

Tools & complementary products

- Primer: EUCOPRIM BITUM WP (to be ordered separately)
- Mixer with spindle
- Trowel, spatula or spraying equipment.
- EUCOSOLV MEK (to be ordered separately)
- EUCOPROOF MESH (If high positive water pressure is expected). (to be ordered separately)

Preparations

Make sure that the surface is dry (< 10% moisture) and free from free standing water. The substrate must be absorbent and clean. Adhesion inhibitors such as grease, oil, formwork oil, cement veil and all loose particles and dust must be removed before applying EUCOPRIM BITUM WP. Expansion joints are included in the system to be installed. The flatness of the substrate must correspond to the desired requirements, i.e. fill or level irregularities (> 5 mm) with products that are complementary to the substrate, to the primer and the bituminous waterproofing membrane to be applied. Construction joints, shrink joints and passive cracks can be coated. This on condition that they are not used as dilatation joints or if they do not follow other movements of the structure and the substrate and that they are flattened with products that are complementary to the substrate and to the waterproofing system to be installed. Moving and/or leaking cracks and joints must be treated separately or waterproofed by means of complementary injection systems. Hollow inner corners, outer corners (wall/wall, wall/floor slab...), joints, flashings, caps and penetrations, etc... must be rounded with a mortar that is compatible with the substrate, the primer and the waterproofing membrane.

Always apply a primer EUCOPRIM BITUM WP according to the respective technical data sheet before applying the waterproofing membrane.

Preparation of the product

First, mix the bituminous mass of Component A into a homogeneous mass with a slowly rotating mixer. Then add the reaction powder Component B evenly and in small portions to the A component while mixing. Continue to mix thoroughly - at least 3 minutes - until both components form a homogeneous, lump-free mass. Never change the mixing ratio (comp. A + comp. B).

Application of the product

EUCOPROOF BITUM 2C T can be applied with a trowel or with spraying equipment onto the primed surface. At high water pressure, we recommend applying 2 layers with a reinforcement mesh EUCOPROOF MESH in between (wet in wet embedding method). The newly applied waterproofing membrane must be protected from direct sunlight, frost and rain until complete curing.

Finishing

The waterproofing membrane must be protected against damages. For example, when replenishing soil against the construction. Drainage layers and protective layers should be applied after the membrane has fully cured.

Cleaning of the tools

If possible, tools and equipment should be cleaned immediately after use or use EUCOSOLV MEK to remove already dried-on residue.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

SCRAPING LAYER:

If the flatness of the substrate is not satisfactory after the substrate preparations, a scraping layer can first be applied with EUCOPROOF BITUM 2C F: consumption = 1 to 2 L per m² depending on the roughness of the surface.

WATERPROOFING AND MOISTURE PROOF LAYER

Approx. 2 to 2,5 mm layer thickness: Consumption = 2,10 to 2,63 kg per m².

Technical data & reaction times

Property	Value
Basic raw materials	COMP A Bitumen emulsion, polymer, filler, rubber, additives COMP B Cement-based reaction powder.
Density	Approx. 1,08 g/m ³ after mixing
Membrane thickness	1 mm wet layer thickness = approx. 0,8 mm dry layer thickness
Processing time	1.5 hours (at 20°C) Higher temperatures lead to a faster reaction.
Curing time	2 days or more, depending on temperature, humidity, layer thickness and surface temperature.
Appearance	Pasty
Colour mixture comp A and B	Black

Chemical resistances

Always consult all technical data sheets of the products to be used. Always work with clean tools in good condition.

Additional documentation & referrals

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APPEARANCE - COMPOSITION - PACKAGING

EUCOPROOF BITUM 2C F is available in buckets of 30 kg.

Comp. A = 22 kg

Comp. B = 8 kg

Note: Component B is included in the bucket of component A.

Store EUCOPROOF BITUM 2C F in a dry, frost-free room and in the unopened original packaging. Do not store in direct sunlight and between +5°C and +30°C. Shelf life 6 months after production date, if kept under the above mentioned conditions.

ADDITIONAL COMMENTS

The required minimum dry layer thickness must be maintained over the entire treated surface.

The required wet dry layer thickness must not be exceeded by more than 100% at any point.

During work breaks the polymer modified bitumen coating must be finished to zero thickness and must not end on or in a corner of the structure. Later, continue on this zone.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at www.eucochem.com. When in doubt, contact our technical service.

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