



IMPERFLEX FIBER-1C

Flexible, single-component, fibreglass-reinforced waterproofing membrane for damp-proofing treatments



SUITABLE FOR
VEHICLE TRAFFIC
AREAS AND CAR
PARKS

OUTDOOR



INDOOR



SUBSTRATES

Sound, absorbent and semi-absorbent substrates, as well as the usual substrates found in construction. Suitable for application over stoneware and ceramic tiles. Substrates must be sound, cohesive, absorbent, well bonded, clean and free of dust.

CHARACTERISTICS

- Highly flexible.
- Fast setting.
- Damp barrier.
- Permeable to water vapour.
- Breathable.
- Fibre-reinforced.
- Beige colour.
- Suitable for application on damp substrates.
- Good impact resistance.
- Excellent abrasion resistance.
- Excellent adhesion on absorbent substrates.
- Easy to apply.
- Crack-bridging capacity.
- Anti-carbonation product.
- Excellent slip resistance (reduces the risk of falls).
- Suitable for traffic areas even when wet.

P4

TRAFFICABLE
DAILY PEDESTRIAN TRAFFIC

CE

TECNO PRODIST

EN 1504-2

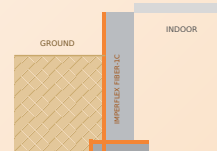
17

PRODUCT FOR THE SURFACE PROTECTION OF
CONCRETE



CAN BE COATED

With any conventional paint once fully dry, unless the product is permanently submerged in water (1)



Application diagram: wall and foundation in contact with the ground



IMPERFLEX FIBER-1C

CARACTERÍSTICAS

- It can be covered with ceramic materials of any absorption level, provided a suitable tile adhesive is used. We recommend our M-COLAFLEX, compliant with European standard C2TES1, or, for a more flexible product, our M-COLAFLEX PISCINAS, compliant with European standard C2TES2. IMPERFLEX FIBER-1C can also be used as a bonding material when laying tiles.
- Classified according to EAD 030350-00-0402 (Liquid-applied roof waterproofing systems), with the highest traffic category P4, under report 25/36603730 issued by APPLUS.

IDEAL FOR

- Protection against water penetration, humidity control, increased resistivity and physical strength for concrete structures, in accordance with UNE-EN 1504-2.
- Waterproofing of tanks, reservoirs, channels, concrete pipework, buried foundations, walls and basement floors, etc.
- Waterproofing of terraces and balconies.
- Waterproofing of green, inverted and landscaped roofs.
- Application on car park floors (pedestrian areas, floors, ramps, etc.).
- Outdoor surfaces with a slope of 6% or more, and staircases.

SITE APPLICATION

SUBSTRATE PREPARATION

The substrate must be sound, clean and free from any trace of saltpetre, mould, micro-organisms, grease, mould-release oils and, in general, any material that could hinder the product's adhesion to the surface. It should be as uniform as possible.

Excessively dry, but sound, substrates must be dampened before applying IMPERFLEX, using a brush, roller or sponge. Avoid saturating the substrate.

If the substrates are dry and show a crumbly surface, we recommend a prior application of TECPINT IMPRIMACION. Damp substrates cannot be treated with solvent-based Fijapren.

Damp, heavily crumbling substrates must be scraped to remove all unsound material, until a solid base is reached.



Damp-proofing treatment of a basement wall and floor slab with IMPERFLEX FIBER-1C



IMPERFLEX FIBER-1C

SITE APPLICATION

CLEANING

Where substrates show signs of mould, algae or other micro-organisms, a curative treatment should first be carried out using a fast-acting mould remover. This is applied to the surface to be treated and, after 5-10 minutes, the substrate is cleaned using a pressure washer or a stiff-bristled brush. Once the substrate is completely dry, a broad-spectrum biocidal cleaner is then applied until the substrate is fully saturated. This treatment, known as preventive, is highly effective and helps prevent the future appearance of micro-organisms.

Where white saltpetre stains or efflorescence are present on the surface to be treated, or where the surface is prone to them, cleaning should first be carried out using our TECPINT CONSOLIDANTE AL SILICATO, applying the product and then scraping with a stiff-bristled brush. After mechanically cleaning the surface, it must be rinsed thoroughly with plenty of clean water to neutralise any residue left on the substrate.

Old substrates must be treated: **restoring worn substrates without prior treatment is strongly discouraged.** If the substrates show hollow areas, these must be scraped and removed until a sound base is reached, after which a primer (FIJAPREN range) should be applied to remove any dust. A sound substrate is generally one made of brick, cement or any other material capable of bearing the weight and tension of the subsequently applied layers, without crumbling or suffering any structural alteration.

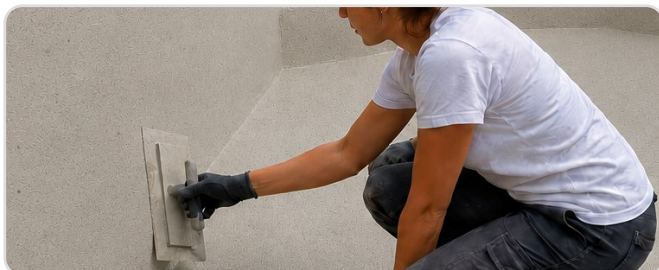
Where cracks are present, they must be treated, i.e. opened up and their interior fixed with a primer (FIJAPREN range), left to dry for at least 4 hours and then filled flush. Where cracks are structural, perimeter joints must be created on the façade to absorb and/or redirect movement.

METHOD OF USE

APPLICATION AS A PAINT

Mix with water at a ratio of 25-27% (250-270 g of clean water per kg of product). Mixing can be done by hand or mechanically using a low-speed electric mixer, until a liquid, lump-free paste is obtained (similar to a conventional paint). Leave the mixed paste to stand for 5 minutes, then apply it to the substrate to be waterproofed using a brush (preferably synthetic-bristled) or a short-pile roller.

Note that, when applying as a paint on vertical substrates, no more than 2 mm thickness per coat should be applied, to prevent the material from sagging.



Swimming pool waterproofing



Shower tray waterproofing



IMPERFLEX FIBER-1C

SITE APPLICATION

METHOD OF USE

• APPLICATION AS A TROWEL-APPLIED COMPOUND

Mix with water at a ratio of 20-25% (200-250 g of clean water per kg of product). Mixing can be done by hand or mechanically using a low-speed electric mixer, until fully homogenised. Leave the mixed paste to stand for 5 minutes, then apply it to the substrate to be waterproofed using a float, trowel or spatula, at the desired thickness (maximum 4 mm per coat for a finishing layer), applying the pressure needed for proper compaction.

If a thickness of more than 4 mm is required, this should be applied in several coats: apply a first 4 mm coat, allow the product to set, then apply a further 4 mm coat, and so on.

To achieve thicknesses greater than 4 mm, and to avoid possible cracking due to surface tension or excess material applied in one or several coats, we recommend embedding our alkali-resistant fibreglass mesh RG-116 between coats. The mesh should be laid after applying the first coat, before it dries, using a spatula or float; by applying light pressure to the fibre, it is embedded within the applied material so that it is fully or partially covered. Allow the product to dry, then apply the final coat of material, fully covering the fibreglass mesh.

Correct waterproofing requires application in coats, to a total thickness of approximately 3-4 mm.

TECHNICAL CHARACTERISTICS

DEEP-DRYING TIME		
SUBSTRATE	AVERAGE THICKNESS	TIME
Concrete	1 mm coat	3 - 4 H

DENSITY	
POWDER (g/ml)	PASTE (g/ml)
1.00 - 1.05	1.60 - 1.65

ADHESION — on cement substrates, 2 mm coat	
TEST	RESULT
Initial adhesion (28 days)	> 2.2 MPa
Adhesion after water immersion	> 0.5 MPa
Adhesion after thermal ageing	> 2.8 MPa

WATER PENETRATION UNDER PRESSURE (EN 12390-8)	
DIRECT PRESSURE	INDIRECT PRESSURE
0.5 MPa — according to report 01-18/039190/1 by Cemosa	0.5 MPa — according to report 01-18/039190/1 by Cemosa



IMPERFLEX FIBER-1C

TECHNICAL CHARACTERISTICS

Pot life	30 - 40 min	Adhesion by direct pull-off (EN 1542)	≥ 2.0 MPa
Maximum thickness per coat	3 - 4 mm	Water vapour permeability (EN ISO 7783)	Class II
Maximum particle size	400 µm	Tool cleaning	With water
pH	12 - 13	Capillary absorption and liquid water permeability (EN 1062-3)	< 0.1 kg (m ² ·h ^{0.5})
Flexural strength (EN 12190)	≥ 4.0 N/mm ²	CO ₂ permeability (EN 1062-6)	Sd > 50 m
Compressive strength (EN 12190)	≥ 5.0 N/mm ²	Taber abrasion resistance (EN ISO 5470-1)	Weight loss < 110 mg
Service load (EAD 030350-00-0402)	P4 (special)	Impact resistance (EN ISO 6272-1)	≥ 20 Nm Class III
Slip resistance for pedestrian surfaces (EN 16165 Annex C)	Rd > 45 - Class 3	COVERAGE	
Slip/skid resistance (EN 13036-4)	Class III		
		Kilograms of powder applied per m ² at 1 mm thickness	1.1 - 1.2

ADDITIONAL INFORMATION

The manufacturing process for the IMPERFLEX range is controlled by batch, ensuring full traceability in the event of any issue. The quality system in place includes the in-house design of each product and controls carried out during its manufacture, covering both the raw materials used and the consistency of production and the final product obtained. The use of eco-technologies in our manufacturing processes allows us to work efficiently while respecting the environment around us.

- Non-flammable product. Irritant.
- Avoid contact of the product with skin and eyes.
- Smoking, eating and drinking must be prohibited in the application area.
- Comply with occupational health and safety legislation.
- Store the product in a dry place, in its original, properly sealed packaging.
- Store containers between 5 °C and 35 °C.
- Recommended maximum storage period: 6 months from the manufacturing date, in the original packaging and protected from moisture.

For further information on protective measures and first aid, please consult the product's Safety Data Sheet.



IMPERFLEX FIBER-1C

NOTES

- **(1) IMPERFLEX FIBER-1C** can be coated with any type of filler or render, technical or repair mortar, decorative coatings or paints (provided they are breathable and resistant to cement alkalis). If an intensely coloured plastic paint is to be applied over IMPERFLEX, to prevent discolouration, a coat of our TECPINT IMPRIMACION product should first be applied, before applying the paint as normal. **IMPERFLEX FIBER-1C** must not be coated with any paint if it will be submerged or in continuous contact with water.
- Do not coat with any paint or covering until IMPERFLEX FIBER-1C has been confirmed to be fully dry, using a contact hygrometer. The residual moisture content must be no higher than 0.5% to ensure a reliable coating.
- For proper use and correct application of the product, prior reading of its technical data sheet is essential.
- The data provided in this technical data sheet are indicative and should not be considered binding. They were obtained under standard laboratory conditions and on standardised substrates, and may vary depending on site conditions (substrate absorption, thickness applied, temperature, ambient humidity, etc.). The ranges shown have been established based on historical measurement data. Slight deviations, above or below the ranges given in this data sheet, will be accepted according to internal technical criteria and will not affect the quality or performance of the final product, being due, among other factors, to variations in measurement conditions and to the inherent uncertainty of the instruments used.
- Users' working conditions are beyond our control.
- The product must not be used for purposes other than those specified. It is recommended to strictly follow the application guidelines.
- Do not exceed the recommended maximum application thickness.
- It is essential to assess the condition of substrates before each application.
- Use the product within its shelf life. Beyond this period, unfavourable properties may result.
- Do not apply outdoors on days with a risk of rain or frost. Protect the application from rain, strong wind or direct sunlight for the 48 hours following application.
- We advise against permanently placing heavy objects on surfaces waterproofed with IMPERFLEX FIBER-1C, as these could damage the surface.
- Do not apply on extremely glazed or vitrified surfaces.
- Do not apply on plasticised paint, wood or plaster.
- Do not mix with any other material, as this will affect its technical properties.
- The substrate may be damp or dry at the time of application. Avoid applying on substrates with standing water.
- Substrate and ambient temperature: minimum + 5 °C / maximum + 35 °C.
- If painting IMPERFLEX FIBER-1C with a solvent-based paint, a preliminary test is recommended.
- Our technical and sales team is available to assist with any questions or queries.



MCERT
N.º de Certificado: 1508
ISO 9001:2015



MCERT
N.º de Certificado: 1502
ISO 14001:2015