

DUROFLEX POWDER



Two-component flexible cementitious sealant & adhesive



■ PROPERTIES

Flexible sealant, adhesive and waterproofer of two components. After curing, it forms a flexible durable membrane with minimal shrinkage. Highly resistant to mechanical stresses, impacts and abrasion. Highly durable against alkaline environment and adverse weather conditions. It bonds powerfully to surfaces and prevents moisture or water penetration in the joints between similar and/or dissimilar materials, such as plaster with concrete, metal, clay roof tiles and stone, wood etc. DUROFLEX POWDER ensures long-lasting protection as it seals, bonds and waterproofs perfectly.

Classified as product for surface protection of concrete surfaces (c) per EN 1504-2, principle 1 PI (Protection against Ingress), principle 2 MC (Moisture Control), and principle 8 IR (Increase of Resistance).

■ ADVANTAGES

- Adhesion to any porous mineral surface, without primer, by just lightly soaking the surface
- Easy to use with a brush or trowel.
- Does not favor the growth of mold and bacteria.
- Great durability over time.
- Does not crack.
- Can be painted with elastomeric acrylic paints and waterproofers.

■ APPLICATIONS

DUROFLEX POWDER is suitable for flexible seals and waterproofings in a variety of applications:

- As a sealant, in the perimeter of exterior horizontal and vertical surfaces, at their junction.
- It seals the perimeter of buildings at ground level preventing rising damp forming from the bouncing rain when coating 15cm to 30cm from the ground/floor level up
- It waterproofs cement coving on roofs, presenting cracks caused by micro-vibrations, sinking ground or unsuitable material used for the creation of the cove
- Repair of cracks in tile grout on floors
- Points of contact of pitched roofs with side walls, hips and lead-lined valleys.
- Bonding of detached ridges and waterproofing of the cracked mortar with the same product
- Sealing and flexible waterproofing of cracked roofing tiles, roofing ornaments and their bonding mortar
- Sealing holes created during installation of boilers, air conditioners, solar water-heaters and photovoltaic modules
- Sealing of areas of load bearing elements joining with walls made of brick or aircrete, thus preventing cracks and detachments
- Sealing joints between plaster and stone
- Sealing the edges of marble saddles with plaster

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- It waterproofs skylight casements, roof windows and chimneys' bases
- Flexible seal for gypsum board and cement board installations, preventing the usually created cracks for such construction practices
- Flexible bonding of insulating boards and soundproofing materials on any surface wherever deemed necessary

■ USE

1. Surface preparation

The substrate must be free of dust and loose materials and should be soaked thoroughly. On (salvageable) deteriorated surfaces, first prime with the micromolar stabilizer for walls, roofs and gypsum boards, AQUAFIX of DUROSTICK.

2. Application

Empty the powder into the emulsion at a ratio: 1.75kg powder to 0.7lt emulsion. Mix with a low-rpm electric mixer, until a lump-free, homogeneous paste is formed.

The mixture must be thick enough so it does not drip from the brush. Allow the mixture to mature for 5-10 minutes and mix periodically without adding extra water. The mixture remains workable for 2 hours and is applied with a brush or trowel in consecutive coats of 1 to 1.5mm each one. Apply the next coat within 2-3 hours, following the previous one, without soaking. During the summer months, on exterior surfaces, soaking is recommended after 3-4 hours, at least once.

When temperature is below +5°C and above +35°C, or if there is a chance of rain for the next 12 hours, its application should be avoided.

■ NOTE

Before mixing the two components, mix the resin very well in its container.

■ CLEANING

Any residues should be removed immediately with a damp sponge. Clean all tools with water, immediately after use.

■ CONSUMPTION

1.0kg/m²/mm thick coat.

■ STORAGE

Store in the factory sealed containers in dry and shaded places of low moisture, for months from production date.

■ SAFETY DIRECTIONS

Component A: The product contains Portland cement. Before use, refer to the cautions on the product's package or the Safety Data Sheet.

Component B: This product needs no hazard labeling under current European and National legislation. It is however recommended to keep away from the reach of children. If swallowed, seek medical advice immediately and show the container or label.

■ PACKAGING

Container set of 2.5kg each one

TECHNICAL SPECIFICATIONS

(Measurement conditions 20°C and 50% R.H.)

	Component A	Component B
■ Form	Cementitious mortar	Acrylic polymer-concentrated. Elastic membrane after application.
■ Color	Gray, Brick red	Off-white
■ Mixing ratio	1.75kg powder	0.7lt resin
■ Bulk density of dry mortar	1.40±0,05kg/l	
■ Density		1.00±0.05kg/l
■ Application temperature	From +5°C to +35°C	
■ Temperature resistance	From -30°C to +90°C	
■ Mixing time	2-3 minutes	
■ Pot life	Approximately 2 hours	
■ Shrinkage	Negligible	
■ Watertightness	Excellent	

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PRODUCT PERFORMANCES	
Permeability S_d to CO_2 per EN 1062-6 (method A)	$S_d > 50\text{m}$
Water vapour permeability S_d per EN ISO 7783	$S_d = 2.90\text{m}$ (class I, water vapour permeable)
Capillary absorption and Permeability in water per EN 1062-3	$w = 0.015\text{kg/m}^2 \cdot \text{h}^{0.5}$
Adhesion strength per EN 1542	$\geq 0.80 \text{ N/mm}^2$ (Crack-bridging system)
Crack-bridging abilities per EN 1062-7	Class A5 ($> 2.5\text{mm}$ at -10°C)
Reaction to fire	Class F

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