

F.72 Elastomalta

Conforms to standard EN 14891 - Class CM OP

Two-component, cement-based, fibre-reinforced elastic mortar for protecting and waterproofing concrete surfaces, balconies, terraces, existing flooring, bathrooms and swimming pools.

High resistance to UV rays. Horizontal and vertical surfaces. For indoor and outdoor use. PROFESSIONAL USE.



- Waterproofing flat covers such as balconies, terraces, roofs in concrete not fit for traffic but subjected to particular dynamic solicitations;

- protective finishes for concrete surfaces also vertical (bridges, walls, dams) against aggression from antifreeze salts, carbon dioxide, smog, etc.;

- protecting concrete surfaces or plasters that may come into contact with sea water, de-icing salts such as sodium or calcium chloride, and sulphate salts;

- protection against the penetration of carbon dioxide, of concrete pillars and joists, of road and railway overpasses, also restored with products from the F.76 line and, more generally, structures with an inadequate layer of concrete covering the reinforcing rods;

- protecting plastered or concrete surfaces with cracks caused by shrinkage, or for protection against the infiltration of aggressive salts;

- waterproofing structures where watertightness must be ensured in particular conditions of pressure and with possible vibrations of the structure, such as swimming pools, basins, cisterns;

- waterproofing inabsorbent surfaces such as exixting floors, also glazed on balconies and terraces before new floors are laid;

- for forming an elastic union between floor surface and wall, or between doorstep and flooring;

- waterproofing bathrooms, shower bases, shower cubicles, also in places designed for public use;

- waterproofing terraces and balconies made of cement, marble tiles, glazed ceramic.

- Concrete substrates m	ust be prep	ared so	as to	ensure	that the	F.72	ELAS	TOMALTA	A bonds	in an
optimum way.										

- It is necessary to remove all crumbly and no slod aprts by using chiselling, brushing or highpressure water jets.

Traces of oil, form release agents, rust and dirt in general must be removed, and the surfaces must be free from stagnating water. Deteriorated parts and loose stone foundations must be previously restored with F.76 TIXO mortar (see Technical Data Sheet) so as to obtain a uniform surface.
 Cracks and splits in the concrete surface must be repaired with epoxy-based products (F.48)

SUBSTRATES POXYCEM or F.49 POXYRAPID for vertical surfaces) or cement-based products (F.76 MALTA

SUITABLE

APPLICATIONS

ESPANSIVA COLABILE). - Existing floors must be previously cleaned using a solution of water and 10% caustic soda. Alternatively, they can be treated with F.80 SGRASSANTE.

- Prior to treatment, plastered surfaces must be sufficiently solid, compact, dry and cured (for at least 7 days).

- All substrates must be dry and free from rising damp.

- Surfaces in gypsum, anhydrite (sandpapered) or cement-based substrates with traces of chalking on the surface, must be treated with F.28/G APPRETTO.

PREPARATION OF THE MIX Pour component B (liquid) into a suitable container, then gradually add component A (powder). Mixing with a low-speed mechanical mixer (F.97). Avoid incorporating air and continue until a homogeneous, lump-free paste has been obtained.

APPLICATION that remo

Make sure that the cement-based substrate is solid (apply F.32 PROCEM to crumbly surfaces) and that the existing floor surface is well bonded to the substrate: portions that sound "hollow" must be removed and filled with the same F.72 ELASTOMALTA (consult the "substrate" section). For laying high thicknesses (up to 20 mm), use a product from CERCOL's smoothing compounds or adhesives



APPLICATION	range (consult the relative Technical Data Sheets). Apply a 1,5/2 mm layer of F.72 ELASTOMALTA to the prepared surface; insert F.25 RETE (fiberglass mesh, size 4x4 mm) and tap it down well or press it with a roller. Apply a second 1,5/2 mm layer of F.72 ELASTOMALTA and wait at least 24 hours (at a temperature of +20°C) prior to laying the new flooring with a class C2 adhesive from the CERCOL range. Ceramics, mosaics and stones can be fixed straight to the surface by applying a second coat of F.72 ELASTOMALTA in a thicker layer (about 5/6 mm), so that it can be worked with a notched trowel suited to the tile format used. Overlap the layer of F.72 by at least 10 cm and apply the product up to a height of 20/30 cm in the corners and joints between the floor/walls, pillars, kerbs, doorsteps, steps, etc. To make corners, edges, floor-wall joints in general and expansion joints even more watertight, use the appropriate rubber tapes (F.25 BAND or BAND ADESIVA) in conjunction with F.72. F.72 ELASTOMALTA can be applied mechanically using a sprayer pump or by hand with a smooth trowel. Level off the mixture both horizontally and vertically until obtaining a 1,5/2 mm thick layer per coat. Several overlapping coats can be applied, depending on the required degree of protection and finish, but only after the first coat has hardened (after about 5 hours). During hot season, it is advisable to wet the surface to prevent the product from drying too fast. F.72 ELASTOMALTA can also be applied with a brush or roller , depending on the surface to be covered (irregular, curved or very rough) and on the conditions in the building site (hot and highly absorbent substrate) by mixing component "A" (powder) with 40% of component "B" (latex), i.e. by mixing a 24 kg bag of COMP.A with 10 kg of COMP.B. In this case, a first coat will be applied and left to dry for about 10-30 minutes, then the second coat will be applied with F.25 RETE inserted in it. The third, finishing coat can be applied once the second coat has dried (10-
WARNINGS	 Do not use in coats over 2 mm thick. Do not apply at temperatures lower than +8°C. Do not add lime, cements or aggregates. Protect from rain or water for at least 24 hours. Once applied, protect the mortar from evaporating too quickly with atomized water. In high temperatures, dampen (but do not saturate) the cement-based or concrete substrate prior to applying F.72. Do not prepare the mixture by hand. Do not expose the packages to the sun during hot season. Component B may be affected by frost. Protect the packages in low temperatures. Wash equipment immediately after use.
COVERAGE	Approx.1,6 kg/m ² per mm of thickness (minimum thickness to be obtained: 2 mm).
	With water prior to setting. Afterwards, mechanically

EANING | With water prior to setting. Afterwards, mechanically.

PACKAGING 32 kg packs (Component A: 24 kg bag. Component B: 8 kg drum. COMP.B can be sold separately on request.

TECHNICAL DATA

Classification according to EN 1504-2	Cement-based elastic mortar for waterproofing balconies, terraces, bathrooms, swimming pools and for protecting concrete in accordance with the specifications of EN 14891 and EN 1504-2 coating systems (C) principles PI, MC and IR.				
	Comp. A	Comp. B			
Appearance	Premixed in powder	liquid			
Hazard classification (directive 1999/45/EC)	Irritant (consult the safety sheet for more details)	No (consult the safety sheet for more details)			
Volumic mass (g/m3)	1,40	1,10			
Dry solid content	100%	50%			
Mixing ratio	Comp.A 3 parts: Comp.B 1 part				
Volumic mass of mixture	1.700 kg/m³				
*Pot life of mixture	≥ 60 min.				
Application temperature range	from +8°C to +35°C				
*Walk-over time	24 hours				
*Laying of floor surface	after at least 24 hours				
Thermal resistance	from -30°C to +90°C				
Storage	Comp. A: 12 months Comp. B: 24 months in original packaging in a dry place. PROTECT AGAINST FROST .				
PRODUCT CONFORMS TO THE REQUIREMENTS OF DIRECTIVE 2003/53/EC.					



*Data obtained at +20°C and +50% Relative Humidity.

FINAL PERFORMANCE

Performance characteristic Thickness applied 2 mm	Acceptance limits as per EN 1504-2 coating system (C) principles PI, MC and IR	Product performance
Bond to concrete in compliance with UNI 1542: - after 28 days at +20°C and 50% RH (N/mm ²)	For flexible systems without traffic: ≥ 0.8 with traffic: ≥ 1.5	1.0
Thermal compatibility with freezing-thawing cycles with de-icing salts, measured as bond according to EN 1542 (N/mm ²)	For flexible systems without traffic: ≥ 0.8 with traffic: ≥ 1.5	0.8
Bond to concrete in compliance with UNI 1542: - after 7 days at +20°C and 50% RH + 21 days in water (N/mm ²)	not required	0.6
Elasticity according to DIN 53504 mod. expressed as elongation: - after 28 days at +20°C and 50% RH (%)	not required	30
Static crack bridging at -20°C according to EN 1062-7 of the film of product expressed as max width of the crack (mm)	from class A1 (0.1 mm) to class A5 (2.5 mm)	class A3 (-20°C) (> 0.5 mm)
Dynamic crack bridging at -20°C according to EN 1062-7 expressed as resistance to cracking cycles	from class B1 to class B4.2	class B3.1 (-20°C) - no breakage after 1,000 cycles with crack movements from 0.10 to 0.30 mm
Water vapour permeability according to EN ISO 7783-1: - equivalent air layer thickness $S_{\rm D}$ (m)	Class I : $S_{D} < 5$ m (permeable to vapour)	S _D μ 2.4 1200
Impermeability to water expressed as capillary absorption ac- cording to EN 1062-3 (kg/m ^{2*} h ^{0.5}):	< 0.1	< 0.05
Permeability to carbon dioxide (CO ₂) according to EN 1062-6 - diffusion in equivalent air layer thickness S_DCO_2 (m):	> 50	> 50
Reaction to fire (Euroclass):	class declared by the manufacturer	C, s1 -d0
Performance characteristic Bonding values according to EN 14891 established with F.72 and C2F adhesive according to EN 12004	Acceptance limits according to EN 14891	Product performance
Impermeability to pressurized water according to EN 14891 - A.7 (1.5 bar for 7 days of positive pressure)	No penetration	No penetration
Crack bridging ability at +20°C according to EN 14891 - A.8.2 (mm)	> 0.75	0.9
Crack bridging ability at -20°C according to EN 14891 - A.8.3 (mm)	> 0.75	0.8
Initial bond according to EN 14891 A.6.2 (N/mm ²)	> 0.5	0.8
Bond after immersion in water according to EN 14891- A.6.3 (N/ $\rm mm^2)$	> 0.5	0.55
Bond after the action of heat according to EN 14891 - A.6.5 (N/ $\rm mm^2)$	> 0.5	1.2
Bond after freezing-thawing cycles according to EN 14891 - A.6.6 $(\ensuremath{\text{N/mm^2}})$	> 0.5	0.6
Bond after immersion in basic water according to EN 14891- A.6.9 (N/mm ²)	> 0.5	0.6

SPECIFICATION

Waterproofing flat surfaces not subject to pedestrian traffic on balconies and terraces which must be repaved, swimming pools, bathrooms, showers and/or protection of concrete surfaces against aggression from de-icing salts, carbon dioxide, smog, etc., must be carried out with a flexible, two-component, cement-based, fibre-reinforced mortar such as F.72 ELASTOMALTA by Cercol SpA, which can be applied in coats at least 2 mm thick, in accordance with standards EN 1504-2 and EN 14891.

This technical data sheet is based on the knowledge acquired from our experience. We reserve the right to modify the data contained herein as a result of improvements and technical progress. Considering the different materials and diverse working techniques, which are outside of our control, we cannot accept any responsibility for the use of these instructions. We therefore recommend undertaking sufficient test applications and consulting our Technical Assistance service.





CERCOL S.p.A. 41049 Sassuolo (MO), ITALY . Via Valle d'Aosta, 48 Tel. +39 0536 801007 . Fax +39 0536 804860 Fax Technical and Sales Offices +39 0536 808830 www.cercol.com . info@cercol.it

