

ISOFLEX ELASTIC 1062

Product Data Sheet (TDS)

DESCRIPTION

ISOFLEX ELASTIC 1062 is a two-component, polymer-modified, flexible cementitious waterproofing and protection slurry mortar for concrete structures, renders and cementitious screeds, suitable for internal and external applications.

ISOFLEX ELASTIC 1062 provides a hardwearing waterproof membrane with excellent bonding properties for potable water retaining structures, tanks, reservoirs, foundations, basements and cellars.

USES

ISOFLEX ELASTIC 1062 can be applied on both horizontal and vertical surfaces and used for external and internal protection, waterproofing, crack sealing, repair work as following:

- Interior and exterior waterproofing and damp-proofing of concrete structures, renders and cementitious screeds, brickwork and blockwork.
- Waterproofing swimming pools, water tanks, reservoirs, basements, cellars and foundations.
- Water and sewage treatment facilities including concrete tanks, digestors, clarifiers etc.
- Waterproofing applications on balconies and terraces overcoated by a protective cementitious layer.
- Protection on of concrete substrates and masonry against water, carbonation, chloride ions, salts and freeze-thaw attack.
- Bridges & Sea walls.
- Retaining walls & for sealing fine "hairline" cracks in concrete structures not subject to movement surfaces.



ADVANTAGES

- Improves the watertightness of water-containing concrete tanks, reservoirs, and clear wells.
- Protects against water penetration, yet water vapor permeable (breathable).
- Excellent ability withstands high positive and negative water pressures.
- Excellent fungus and mould resistant.
- Excellent freeze/thaw resistance.
- Non-toxic, approved for use in contact with potable water.
- Excellent abrasion resistance.
- Excellent bonding to porous and non-porous surfaces.
- Ready to use, easy and fast mixing and application.
- Can be applied on both horizontal and vertical surfaces.
- Easy to apply by brush or in thin trowel applications.
- Hand or spray applied.

STANDARDS

ISOFLEX ELASTIC 1062 for waterproofing and protecting concrete in compliance with the requirements of EN 14891 and EN 1504-2, EN 1504-9 coating (C) principles PI, MC and IR.

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PRODUCT & TECHNICAL DATA

	Part. A	Part. B
Consistency	Powder	liquid
Colour	Gray	White
Bulk density	1.77 g/cm ³	
Liquid Density		1.02 g/cm ³
Dry solids content	100 %	36 %
Mix Density	1.67 g/cm ³	
Mixing ratio	10 kg liquid with 20 kg powder	
Pot life of mix	30 min	
Dry time between each coat	2 – 4 hours	
Impermeability to water under pressure (1.5 bar fo 7 days) (EN 14891)	No penetration	
Adhesion to concrete – after 28 days (EN14891)	~ 1 MPa	
Adhesion to concrete – after 28 days in water (EN 14891)	> 0.5 MPa	
Crack Bridging (EN 14891)	> 0.75	
Application ambient Air Temperature	(+6 °C) – (+35 °C)	
Application substrate Temperature	(+6 °C) – (+35 °C)	

COVERAGE

Two (2) coats of ISO FLEX ELASTIC 1062 are always required:

1st coat consumption approx. 1-1.5 kg/m².

2nd coat consumption approx. 0.8 - 1 kg/m².

The above figures are theoretical for a seamless film applied on a flat surface and don't consider substrate profile and wastage. Three coats may be required in areas of extremely high water infiltration.

APPLICATION PROCEDURE

Surface preparation

The substrate must be structurally sound and free of all traces of contaminants, free from grease, oil, organic growth and loosely adhering particles.

This is best obtained by sandblasting, or wash down with high-pressure water jets.

If the structure to be waterproofed and protected is in poor condition, remove the damaged parts by hand or mechanical abrasion or by using a hydro-demolition system or a hydro-scarifier.

Obvious pores and cracks, substrate containing honey combing, damaged or deteriorated concrete should be repaired using suitable repair mortars from ISOBIT repair systems before coating.

When substrate is too dry or exposed directly to hot and sunny weather, damp the substrate and remove excess water before applying ISOFLEX ELASTIC 1062.

Mixing

Mixing ratio: for slurry consistency 10 kg Part B (liquid) for 20 kg Part A (powder), for trawable consistency 8 kg Part B (liquid) for 20 kg Part A (powder).

Pour Part B (liquid) into a suitable, clean container, then slowly add Part A (powder) while stirring with low-speed mixer/drill (max. 500 rpm) to avoid too much air being dragged into the mix.

Keep stirring slowly for 2 - 3 minutes until a perfectly homogenous mix is obtained.

Do not prepare the mix by hand.

A normal concrete free fall mixer is NOT suitable.

Application

- For brush application: Apply the mixed ISOFLEX ELASTIC 1062 either mechanically, by spray or by hand using a stiff brush.

Applied in the same direction for each coat. Apply the second coat of ISOFLEX ELASTIC 1062, applied by brush in crosswise direction to the first application as soon as first coat has hardened.

- For spray application: Use a hopper gun spray equipment, textured sprayer, or a rotor/stator pump equipment.

First coat should be given (4 to 8 hours depending on the prevailing ambient temperature) to harden before applying the second coat.

As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or a plastic trowel.

Do not overwork ISOFLEX ELASTIC 1062 during finishing and avoid the use of additional water.

[Where required, a third coat of ISOFLEX ELASTIC 1062 may be applied no later than 24 hours after the second coat (in this case, do not trowel or sponge finish the second coat).

- For application as mortar: Apply the first coat of ISOFLEX ELASTIC 1062 with a notched trowel and leave to harden (4 to 8 hours depending on the prevailing ambient temperature).

Apply the second coat with a flat trowel.

- For application with fabric reinforcement: ISOFLEX ELASTIC 1062 can be applied with fabric reinforcement if needed.

After applying the first layer of ISOFLEX ELASTIC 1062 with trowel, place the fabric reinforcement while the material is still wet.

Apply the second layer with trowel as soon as the first coat is hardened.

CURING

As with all cement-based products, curing is important.

Protect newly applied product against direct sunlight, wind, rain and frost.

CLEANING

Clean all the tools with water immediately after use.

Hardened materials can be removed mechanically only.

PACKING

ISOFLEX ELASTIC 1062 is supplied in units of 30 kg: Part A: 20 kg bags, Part B: 10 kg jerrycans.

SHELF LIFE

Shelf life is up to 24 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened packaging, under cover, out of direct sunlight and protect from extreme temperatures.

In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical product, caution should be always be exercised.

Protective clothing such as gloves and goggles should be worn.

Treat any splashes to the skin or eyes with fresh water immediately.

Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.



Prior to use of any ISOBIT product, its subsidiaries, or affiliates, the user should always read and follow the warnings and instructions on the latest version product technical data sheet. ISOBIT guarantees its products against defective materials within the validity period of the product when properly stored, handled, and applied under normal conditions in accordance with ISOBIT's recommendations. ISOBIT does not guarantee the use and application of these products because the terms of their application are beyond its control. ISOBIT reserves the right to change the characteristics of its products and to modify the technical releases without prior notice.

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