

OSMOLASTIC AB

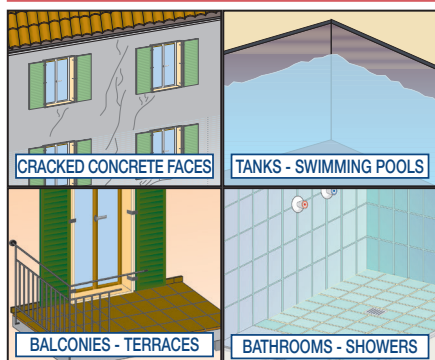
**LIGHT GREY ELASTIC CEMENT-BASED TWO-COMPONENT
POLYMER MODIFIED CEMENT WATERPROOFING,
FOR EXPOSED CONCRETE, TANKS, CONCRETE SCREEDS,
BALCONIES, TERRACES AND BATHROOMS**

GRANTS *LEED* CREDITS

CHARACTERISTICS			ENVIRONMENTAL	METHOD OF USE			PRECAUTIONS	
AB	H ₂ O							
TWO-COMPONENT	WATER BASED	WATERPROOFING	ECO GREEN	MIX MECHANICALLY	APPLY BY INOX SPATULA	APPLY MECHANICALLY USING A SPRAY PUMP	STORAGE: IN A DRY PLACE	STORAGE: KEEP AWAY FROM FROST

PROBLEM

WATERPROOF:



Concrete structures designed to withstand mechanical or dynamic strain may be subject to deterioration problems such as micro or macro cracking caused by continuous structural movements following settling of the ground, thermal expansion and vibrations. These micro cracks are the main cause of deterioration, which may occur quite rapidly, due to infiltrations of water or through oxidation of the reinforcement caused by atmospheric chemical aggression. Tiled ceramic floorings on old cracked terrace structures are often subject to water infiltrations, which cause the underlying support to deteriorate over time and the tiles to detach in certain areas.

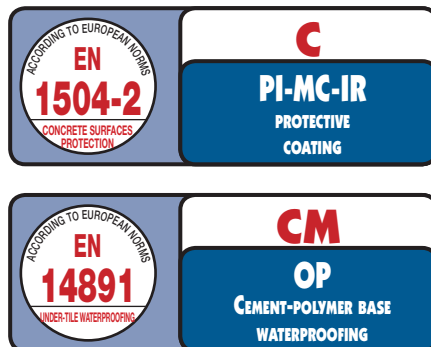
SOLUTION

OSMOLASTIC AB is a two-component elastoplastic waterproofing coating: the first component is a premix powder based on hydraulic binders, selected aggregates and additives, which improve the workability and impermeability. The second is a latex based on special synthetic polymers in aqueous dispersion. The two-component mix produces an easy-to-apply mixture featuring optimal adhesion to any kind of support. **OSMOLASTIC AB** provides elastic waterproofing that follows and absorbs the structural movements of concrete without damage while being impermeable to aggressive gases in the atmosphere such as CO₂-SO₂.

APPLICATION FIELDS

OSMOLASTIC AB is used for:

- the waterproofing of structures where the long lasting seal against water is required also in conditions of



possible movements of the structure, such as tanks, swimming pools, balconies, bathrooms, etc.;

- create a uniform surface on the concrete and as an anti carbonation protection of structures subject to deformation under stress or micro cracked plaster on faces. The finishing that is obtained with **OSMOLASTIC** is similar to colouring the exposed concrete;
- the protection of concrete surfaces subject to chemical aggression such as, for example, de-icing salts or sulphates;
- the elastic connection between the floor slab and the wall, thresholds and paving, piping and masonry, etc.;
- the waterproofing overlapping the paving and ceramic terraces, without demolishing the existing support;
- the waterproofing coating, suitable support for the laying of ceramic floors.

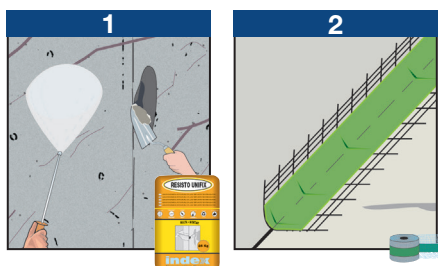
ADVANTAGES

- High workability and flexibility** which allows you to cover the formation of sub-base cracks up to 1 mm without deterioration or damage to the coating.
- High adhesion** to the various types of support.
- High impermeability** to water.
- Resistance to frost-thaw cycles**, it maintains a high plasticity also at low temperatures.
- Ease of application** both horizontally and vertically.
- Non-toxic product**.
- OSMOLASTIC AB** creates a flexible and impermeable layer to CO₂, SO₂, chloride and sulphates.

METHOD OF USE

• PREPARING THE SUB-BASE

The existing concrete supports or paving must be prepared to ensure an excellent adhesion to the **OSMOLASTIC AB** waterproof coating. Therefore it is necessary to remove all the loose and flaking parts



(1) through chipping, brushing and washing; traces of oils, dismantled parts, rust and dirt must be removed and the surfaces must be free from stagnated water. The degraded and loose parts must be previously restored with RESISTO TIXO or RESISTO UNIFIX render (1) in order to make a uniform surface. In the connectors between vertical and horizontal and in the expansion joints we advise using the COVERBAND ADHESIVE or COVERBAND joint covering sealing tape (2).

• PREPARATION OF THE MIX

Pour component **B** (liquid) into the suitable container, and gradually add component **A** (powder) mixing with a low speed mechanical stirrer (3), avoiding air bubbles, until a smooth mixture is obtained without

any lumps, with good characteristics of smoothness, thixotropy and easy applicability.

• APPLICATION

OSMOLASTIC AB is applied mechanically with a spray pump or manually with a stainless steel spatula by uniformly shaving the mix both horizontally and vertically until a maximum thickness of 2 mm is obtained. In particularly stressed areas we advise the reinforcement of the **OSMOLASTIC AB** coating with RETINVETRO PER RASANTI with 4x5 mm mesh (4). During the warmer months of the year, to avoid quick drying we advise wetting the sub-base of application without creating layers of water.

(See following)

TECHNICAL CHARACTERISTICS

	Standard	OSMOLASTIC AB	
		COMPONENT A	COMPONENT B
Appearance		Powder	Latex
Mix ratio		15	5
Apparent volume mass		1.45 ± 0.10 kg/ℓ	1.01 ± 0.10 kg/ℓ
Colour		Grey	
Storage in original packaging in a dry place		12 months	
Mix properties and workability	Standard		
Volume mass of the mix	EN 1015-6	1.65 ± 0.05 kg/ℓ	
pH mix		12	
Workable mix duration (*)		about 50 minutes	
Application temperature		+5°C ÷ +35°C	
Maximum application thickness		3 mm (in two coats)	
Adhesive class for application of ceramic		C2S1-C2S2, in accordance with EN 12004:2007+A1:2012	
Waiting time - for overpainting with ceramic or paints (*)		3 days	
Performance characteristics	Standard	Product performance	
Class and type	EN 1504-2	C PI-MC-IR	
Class and type	EN 14891	CM OP	
Initial adhesion strength	EN 14891	≥1.00 N/mm²	
Adhesion strength - after immersion in water	EN 14891	≥0.50 N/mm²	
Adhesion strength - after basic water dipping	EN 14891	≥0.50 N/mm²	
Adhesion strength - after chlorate water dipping	EN 14891	≥0.50 N/mm²	
Adhesion strength - after heat	EN 14891	≥1.00 N/mm²	
Adhesion strength - after thaw-frost cycles	EN 14891	≥0.50 N/mm²	
Cold flexibility	UNI 1109	-35°C	
Water vapour permeability	EN 7783	Sd <5 m - class I	
Adhesion strength	EN 1542	≥1.0 MPa	
Capillary absorption and water permeability	EN 1062-3	w<0.1 kg/m²·h0.5	
CO₂ permeability	EN 1062-6	Sd >50 m	
Watertightness	EN 14891	>500 KPa - waterproof	
Crack bridging	EN 1062-7	>0.5 mm - class A3	
Crack bridging ability at +20°C	EN 14891	>0.75 mm	
Crack bridging ability at -20°C	EN 14891	>0.75 mm	
Ultimate elongation at 23°C and R.H. 50%	NFT 46002	40±5%	
Thermal resistance - Operating temperature		-40°C ÷ +90°C	
Fire reaction	EN 13501-1	E	
Hazardous substances	EN 1504-2	in accordance to ZA.1 note	

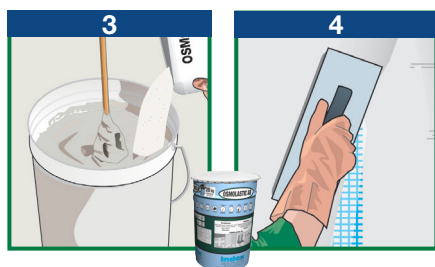
Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. The data shown may vary depending on the specific work site conditions: temperature, humidity, ventilation, absorbency of the base coat. (*) The stated times are longer or shorter as the temperature decreases or increases.

In accordance with the general principles defined in EN 1504-9 - Principles for evaluation of the use of products and systems.

(See previous)

• SUBSEQUENT FINISHING AND PROCESSES

Painting with two coats of ELASTOLIQUID S is possible to improve the resistance to aggressive agents.



In the renovation of old paving, apply the adhesive FLEXBOND or GRANICOL AB RAPID after the hardening of the waterproof layer.

• COVERAGE

Coverage is about 1.5 kg/m²×mm. Average consumption: about 3 kg/m². Recommended thickness: 2 mm.

• PRECAUTIONS

- Do not use on metal, rubber, wood, lino or PVC surfaces or vinyl paving.
- Do not apply at a temperature lower than +5°C; in case of freezing, component B is no longer usable.
- Store the product in a dry and fresh place in the

closed original containers.

- Do not add cement or aggregates to the mix.
- Do not apply **OSMOLASTIC AB** with a thickness exceeding 2 mm.
- Avoid preparing the mix manually.
- In case of waterproofing in negative thrust use **OSMOSEAL**.
- During the warmer months of the year it is worthwhile not exposing the tins to the sun.
- Protect from rain while setting.
- Wash the tools immediately after use.

PACKAGING

OSMOLASTIC AB

20 kg pail

- Component A: 25-kg Sack
- Component B: 8.7-kg can



The numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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Construction Systems and Products

Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67
T. +39 045 8546201 - F. +39 045 518390

Internet: www.index-spa.com
Informazioni Tecniche Commerciali
tecom@indexspa.it
Amministrazione e Segreteria
index@indexspa.it
Index Export Dept.
index.export@indexspa.it

