



Scudo Revolution

One-component polymeric elastic cement-based waterproofing product, vapor permeable and resistant to negative and positive water pressure.



Fields of application:

- elastic waterproofing of tank and swimming-pool bearing structure before installing ceramic tiling and mosaic;
- waterproofing of sidewalks, terraces even when large sized, flat and sloped roofs, before the installation of coating or covering;
- waterproofing of existing balconies and showers with the installation of new floors without demolishing the existing ones;
- protection of concrete (pillars, beams, etc.) against degradation and mechanical decay due to carbonation and aggressive agents;
- waterproofing of ground walls;

- to smooth flexibly prefabricated concrete structures subject to vibrations and deformation;
- elastic smoothing plaster for micro-cracked renders;
- professional use only;

Preparation:


the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, form release oils, paint, wax, rust or efflorescence. Repair any holes or uneven sections with **Fibrocem** and any shrinkage splits or cracks with **Eposan**. With concrete bases, remove any cast joint burrs and wait at least 30 days for setting. Before application, drench the base with water and then remove the surplus with compressed air, a liquid suction system, or with absorbent cloths in order to obtain a slightly damp base which, nevertheless, has a dry surface. Old floors must have wax and grease removed and must be washed. To do this, use the **Detergente Basico**. Provide the surface on which you will be applying the product with protection from direct sunlight beforehand. For external surfaces, always make expansion joints in position with those in the screed.

Application:

Mix **Scudo Revolution** with 4.8 l of water in a clean container with a slow speed stirrer, taking care not to produce lumps. For terraces, sidewalks, swimmingpools, showers, etc., apply **Scudoband o Scudoband Adesivo**, in the perimeter and in the dividing joints, taking care to make outdoor applications not larger than 3 m x 3 m. After applying the first coat of **Scudo Revolution**, lay immediately the net **Scudonet o Fibronet 150**. When the product has hardened, apply the second coat for a total thickness of at least 2 mm. On gypsum or anhydrite substrates use **Primer GS** to passivate the substrate. It is recommended to use **RT Universal, RT HI-Tech, Spm Professional o Aquaria** for installing tiles, **S9 Ultrawhite + Isoflex o Aquaria** for swimming-pools. **Scudo Revolution** is a one-component elastic cement-based waterproofing coat. The accurate formula of **Scudo Revolution** with aggregates, finely micronized Hi Tech binders and a mix of additives and polymers guarantees strong adhesion even on non-absorbing substrates, high resistance to water pressure and back pressure, in case of contact with chlorinated water in an alkaline environment, thus enabling a lasting effect in time. Indicated for indoor and outdoor civil, commercial and industrial applications.

Quality and Environmental Standards:

Scudo Revolution undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2015.

	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy
DOP-IT-01-066 SCUDO REVOLUTION EN 14891:2012	
One-component cementitious liquid applied waterproofing product CM O2P, for all outdoor installations and pools, tiled over with ceramics (glued with C2 adhesive in accordance with CEN 12004)	
Initial tensile adhesion	≥ 0.5 N/mm ²
Crack-bridging	No penetration
- in standard conditions (+ 23 ° C)	≥ 0.75 mm
- at very low temperatures (-20 ° C)	≥ 0.75 mm
Durability for:	
- tensile adhesion after thermal aging	≥ 0.5 N/mm ²
- traction adhesion after immersion in water	≥ 0.5 N/mm ²
- tensile adhesion strength after water immersion	≥ 0.5 N/mm ²
- tensile adhesion after freeze-thaw cycles	≥ 0.5 N/mm ²
- traction adhesion after immersion in chlorinated water	≥ 0.5 N/mm ²
Release of dangerous substances See safety sheets	

Characteristics	Application method	Consumption
One-component Vapor permeable Waterproofing to water in pressure and back pressure Concrete protection certificate Crack bridging ability (-20°) Initial adhesion 2.15N/mm ² Temperature: from - 30° to + 70° High performance Horizontal and vertical installation High elasticity Waiting time for second coat: about 4 hours Final elongation: 30%	Trowel Brush Airless	1.2 kg/m ² every mm of thickness
		Storage Shelf life of 12 months in the original packages and in a dry place

Code	Product	Form and color	Packages	Pallet
406045	Scudo Revolution	Grey powder	10 kg	400 kg
406040	Scudo Revolution	Grey powder	20 kg	1200 kg

Warning

- always apply several coats, making sure you wait until the previous coat is dry before applying the next;
- do not apply in thicknesses of over 2 mm per coat;
- do not apply in temperatures below +5°C;
- protect against rain for at least 72 hours;
- if laying on very porous substrates (such as lightened screed or foamed clay), provide ventilating shafts every 25 m² to release the dampness in the substrate;
- do not apply to gypsum or anhydrite substrates without using Primer GS;
- do not apply to metal, wooden, or bituminous surfaces.



Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant	
Specific weight of mixture:	1.50 g/cm³	
Pot life:	approx. 60 minutes	
Application temperature:	from +5°C to +35°C	
Mixing water:	24% (4.8 l per bag)	
Taverage waiting time before applying 2nd coat:	approx. 4 hours	
Waiting time before laying ceramic tiles:	3-4 days	
Maximum coat thickness:	2 mm	
Maximum thickness obtainable:	5 mm	
Low organic volatile emissions:	EC2	
Room/ambient temperature:	from -30°C to +70°C	
FINAL PERFORMANCE SPECIFICATIONS - EN 14891	Requirement	Level
Initial adhesion:	≥ 0.5 N/mm²	2.15 N/mm²
Adhesion after immersion in water:	≥ 0.5 N/mm²	1.00 N/mm²
Adhesion after heat action:	≥ 0.5 N/mm²	3.00 N/mm²
Adhesion after thaw cycles:	≥ 0.5 N/mm²	1.10 N/mm²
Adhesion after immersion in calcium-saturated water:	≥ 0.5 N/mm²	1.00 N/mm²
Adhesion after immersion in coloured water:	≥ 0.5 N/mm²	1.00 N/mm²
Waterproofing at 1.5 bar for 7 days (standard pressure):	no penetrat	no penetrat
Waterproofing at 1.5 bar for 7 days (back pressure):	not required	not required
Crack - bridging ability in standard conditions:	≥ 0.75 N/mm	1.10 mm
Crack - bridging ability in low temperatures (-20 °C):	≥ 0.75 N/mm	0.82 mm
Final elongation:	not required	30%
Vapour permeability - EN 52615:	not required	410 μ
Harmonised customs code:	38245090	

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.