

Scudo A+B

Two-component polymeric elastic cement-based waterproofing product, resistant to water pressure.



Fields of application:

- elastic waterproofing of tank and swimming-pool bearing structure before installing ceramic tiling and mosaic;
- waterproofing of pavements, terraces of every size, flat and sloped roofs, before installing tiles and roof coverings;
- waterproofing of old balconies and showers with the installation of new flooring without demolishing the existing ones;
- protection of concrete (pillars, beams, etc.) against mechanical decay and degradation due to carbonation and aggressive agents;

Characteristics:

Scudo A+B is a two-component elastic cement-based waterproofing coating. The accurate formula of **Scudo A+B** with fine aggregates, the latest generation hydraulic binders and a mix of additives and polymers, together with a synthetic latex made up of Hi-Tech polymers, guarantees strong adhesion even on non-absorbing substrates and high resistance to water pressure. The resistance to contact with chlorinated water and in an alkaline environment, allow the product a safe durability. Indicated for indoor and outdoor civil, commercial and industrial applications.

Preparation:

Substrates must be cured, dry, stable, sound, flat, compact and free of removable parts, clean of dust, grease, oil, paint, wax, rust or efflorescence. Holes or uneven sections can be repaired with Fibrocem, shrinkage splits and cracks with Epofix Flow. Concrete substrates must be seasoned for at least 30 days, casting burrs removed. Before application, saturate the substrate with water and then remove the excess with compressed air, a liquid suction system or with absorbent cloths to obtain a slightly damp base which, nevertheless, has a dry surface. On old floors, remove wax and grease and clean using **Detergente Basico**. Protect surfaces to be treated from direct sunlight. In external surfaces, expansion joints shall always be made in correspondence with those in the screed.

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

Application:

to obtain a homogeneous mixture, pour the latex (component B) into a bucket first and then add the powder (component A), mixing with a low-speed mechanical stirrer to avoid excessive air entrainment until a lump-free paste is obtained. During hot season to not expose **Scudo A+B** packs to direct sunlight before use. An 8 kg tank of latex is required for each 24 kg bag of powder. To prepare smaller doses it is necessary to respect the latex:powder ratio = 1:3. Do not add water, aggregates or hydraulic binders. Do not use the product that is hardening, restoring its workability with water or additional latex (component B liquid). To lay the tiles, wait about 6 days after applying **Scudo A+B** and lay with wide joints (at least 3 mm) using an adhesive like **RT Universal** or **Aquaria**. On gypsum or anhydrite substrates, use **Primer GS** to passivate the support. For pools apply **S9 Ultrawhite + Isoflex** (1:1 ratio with water) or **Aquaria**. When waterproofing terraces, balconies or swimming pools it is always advisable to embed a Glass Fiber mesh in the first coat of **Scudo A+B**. To ensure watertightness, **Scudoband** or **Scudoband Adesivo** should be applied to seal expansion joints and the joints between the vertical and horizontal planes.

Quality and Environmental Standards:

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

CE	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy
	DOP-IT-01-065 SCUDO A+B 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 $\geq 0,5 \text{ N/mm}^2$	
Crack-bridging No penetration	
- in standard conditions (+ 23 ° C) $\geq 0,75 \text{ mm}$	
- at very low temperatures (-20 ° C) $\geq 0,75 \text{ mm}$	
Durability for:	
- tensile adhesion after thermal aging $\geq 0,5 \text{ N/mm}^2$	
- traction adhesion after immersion in water $\geq 0,5 \text{ N/mm}^2$	
- tensile adhesion after freeze-thaw cycles $\geq 0,5 \text{ N/mm}^2$	
- traction adhesion after immersion in chlorinated water $\geq 0,5 \text{ N/mm}^2$	
Release of dangerous substances See safety data sheets	

Characteristics	Application methods	Consumption
Two-component Vapor permeable Waterproof to water pressure Concrete protection certificate Crack bridging ability (-20°C) Initial adhesion 0.90 N/mm2 Temperature: from -30° to +70°C Horizontal and vertical installation High elasticity Waiting period: about 4 hours Final elongation: 30% UV resistant	Trowel/Spatula Brush Airless	1.7 kg/m ² every mm of thickness
		Storage
		Shelf life of 12 months in the original packages at temperatures not lower than +5°C

Code	Product	Form and color	Packages	Pallet
406033	Scudo A+B	Grey powder (comp. A) White latex (comp. B)	32 kg (24 + 8)	1920 kg

Warning

- Always apply at least two coats, waiting for the first to dry before applying the next;
- Do not apply in thicknesses over 3 mm per coat;
- Comply with the recommended mixing ratio for the two components;
- Do not apply when the temperature is below +8°C;
- Protect against rain for at least 24 hours;
- If laying on very porous substrates (such as lightweight screeds or expanded clay) provide ventilation ducts every 25 m² to vent humidity from the substrate.



Technical and application specifications

Hazard classification as per Directive 99/45/EC:	Comp A: irritant, Comp B: none
Specific weight of mixture:	1.80 g/cm³
Pot life:	approx. 60 minutes
Application temperature:	from +8°C to +35°C
Mixing ratio:	comp A: comp B = 3:1
Average time before applying second coat:	approx. 4 hours
Waiting time before laying ceramic tiles:	5 days
Maximum coat thickness:	2 mm
Maximum achievable thickness:	5 mm
Waterproofing rating:	excellent
Operating temperature:	from -30°C to +70°C

FINAL PERFORMANCE SPECIFICATIONS - EN 14891

	Requirement	Level
Initial adhesion:	≥ 0.5 N/mm²	0.90 N/mm²
Adhesion after water immersion:	≥ 0.5 N/mm²	0.60 N/mm²
Adhesion after heat action:	≥ 0.5 N/mm²	1.50 N/mm²
Adhesion after freeze-thaw cycles:	≥ 0.5 N/mm²	0.65 N/mm²
Adhesion after immersion in calcium-saturated water:	≥ 0.5 N/mm²	0.65 N/mm²
Adhesion after immersion in chlorinated water:	≥ 0.5 N/mm²	0.60 N/mm²
Impermeability to water at 1.5 bar for 7 days (under positive pressure)	no penetrat.	no penetrat.
Crack - bridging ability in standard conditions:	≥ 0.75 N/mm	0.9 mm
Crack - bridging ability in low temperatures (-20 °C):	≥ 0.75 N/mm	0.80 mm
Final elongation:	not required	30%

FINAL PERFORMANCE SPECIFICATIONS EN 1504-2 (C) - PRINCIPLES PI, MC e IR

Adhesion to CLS after 28 days (EN 1542):	1.0 N/mm²
Thermal compatibility - part I (EN 1542):	0.9 N/mm²
Static crack bridging at -20°C (EN 1062-7) Class A3:	-20%
Water vapor permeability (EN ISO 7783-1):	Class I SD < 5 m
Capillary absorption - Water permeability (EN 1062-3):	< 0.05 kg/m² h^{0.5}
CO ₂ permeability (EN 1062-6)	SD > 50
Harmonised customs code	38245090

Data measured at +23°C / 50% R.H. and no ventilation. Data may be significantly altered by installation conditions.