

PRODUCT DESCRIPTION

PlekoProof 221 is a two-component, highly flexible, acrylic modified cementitious coating for waterproofing and protecting concrete structures. It cures to form a tough flexible covering having excellent waterproofing properties and protects against carbon dioxide and chloride ion diffusion and is resistant to aggressive atmospheric elements and UV exposure.

It is composed of hydraulic binders, selected aggregates, fibers, and special chemical additives; liquid part contains synthetic co-polymers and wetting agents. It is easy to use by combining pre-measured packages, improving on-site quality control.

USES

Suitable for horizontal or vertical use on concrete structures, renders and screeds where crack bridging capacity is required, to waterproof and protect against water, moisture, carbonation and chloride attack at roofs, balconies, bathrooms, kitchens, pools, retaining walls, pile heads, water tanks, bridge decks....

APPROVED SUBSTRATES

Suitable for concrete, masonry, natural stones, marine grade plywood...

PACKAGING

Comp A: 20 kg in multiply paper bag; Comp B: 10 Kg liquid.

COVERAGE

Approx. 1.5Kg/m²/mm depending on application method. Recommended thickness 2 x 1mm.

Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques.

PROPERTIES

- **Easy to use**
- **Highly Flexible**
- **Crack Bridging**
- **Excellent Adhesion**
- **Excellent Durability**
- **UV and Carbonation Resistant**
- **Factory Controlled Quality**

TECHNICAL DATA

Appearance	A. Free-flowing Grayish powder B. Whitish liquid
Mixed Density (Kg/L ± 0.5)	1.45-1.55
Pot Life (min)	45-60
Bonding strength (N/mm ²)	>1
Tensile strength (N/mm ²)	>1
Positive Hydrostatic pressure @ 5 bar (50m)	Pass
Negative Hydrostatic pressure @ 3 bar (30m)	Pass

INSTALLATION

SUBSTRATE PREPARATION

Surface must be sound, clean, dry, free of bond-inhibiting materials such as paint, grease, oil, efflorescence, form release agents and curing compounds... Loose or hollow portions should be removed by mechanical treatment. Any structural cracks and potholes shall be repaired with a suitable repair mortar from the PlekoMortar line. Moisten slightly the substrate with clean water prior to application to achieve a saturated surface dry condition (SSD); Surface should appear damp with no water running.



Water leaks must be stopped by using quick plugging mortar such as PlekoPlug.

MIXING

Use a clean container free of all foreign substances for preparing and mixing material. Use a heavy duty electric drill and mixing paddle. Pour liquid in container then slowly add powder in small increments while mixing thoroughly to achieve lump-free consistency. Avoid working excessively to prevent air entrapment. Do not add water. Do not prepare the mix by hand. Do not mix more material than that can be used within the pot life. Partial mixing can be carried out while keeping mixing ratio (by weight) to 3 parts of powder to 1 part of liquid.

APPLICATION

PlekoProof 221 can be applied by brush, roller, trowel or airless spray equipment.

Waterproofing: Apply first coat to approx. 1mm, immediately embed Pleko Fiberglass Mesh in wet base at all corners, joints and drainage holes, and smooth off the surface. Once first coat is set (typically 4-8 hrs) apply a second coat to achieve a final thickness not less than 2mm, smooth off to eliminate trowel marks. When waterproofing large areas such as roofs, terrace, pools... it is recommended to apply mesh to entire area for added reinforcement.

Anticarbonation Protection: apply one coat to minimum 1mm thickness.

CURING

PlekoProof 221 should be cured by keeping damp for a minimum of 5 days; protected from wind, frost and direct sunlight.

LIMITATIONS

Apply only to unfrozen surfaces above 4 °C (40°F). Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application. Protect from direct sunlight, wind and rain during application

Do not mix with any additive or product unless recommended by Pleko.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

CLEANING

While still fresh, soluble in water. Clean all equipment with water immediately after use. After hardening, tools should be cleaned mechanically.

STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container off the ground. Storage time must not exceed one year.

HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust.

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention.

Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.