

## Mineral Waterproofing

### One component plastic-cementitious based membrane

**Description:** Plast-1 is a, one component ,mixture for realizing waterproof and water repellent layer, that will be walkable after hardening. It's white colored. This mortar represents an innovative answer to waterproofing problems , that are present on every structures ensuring durable waterproofing , waterrepellency and adhesion to substrate.

**Fields of works:** Waterproofing of structures against ground and floor to floor or walls; For waterproofing balconies, terraces, before laying ceramic coatings; Flexible coating of plaster, screeds, micro-pressed concrete surfaces and prefabricated structures.

**Composition:** Mixture based on white Portland cement ,white alumina cement (CAC) , calcium carbonate and silica aggregates with fine and checked granulometry , lightweight aggregates, microfibers and polymer resin .

**Substrates:**

- Cementitious screeds also self levelings
- Concrete or cementitious plasters already aged
- Cementitious plasters
- overlap on existent floorings

Don't apply on:

- Thickness upper than 2 mm per layer (hand)
- Dusty surfaces, inconsistent, damaged, with efflorescences or with traces of release oil
- Surfaces with backwater
- Different Substrates from those indicated

**Advantages:**

- Good workability;
- Suitable for repairing of damaged structures;
- Very good adhesion on substrates most commonly used in construction (concrete, stone, brick, steel, wood);
- Good dimensional stability;
- Good mechanical compression, flexion and tension resistance;
- Deformable;
- Good workability even above head without phenomena of detachment or bleeding.

**Application:**

**PREPARATION OF THE SUPPORTS:** The support must be healthy, coated, dust-free and incoherent or detached. Regularize all the roughness that can cause difficulty in application and varying thicknesses too strong. The support must also be cleaned by efflorescence, traces of disarming oils and rust. Demolish and restore damaged parts. If the surfaces to be covered are particularly absorbent, first moisten with water. After application, in particularly dry, warm or ventilated climates, it is recommended to protect the surface from rapid evaporation with damp or shading.

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Rc-41 Plast 1

**APPLICATION:** Mix Plast-1 with 24-25% of clean water per 25 kg bag. Mix with a low speed drill (120/300 rpm) until you get one Homogeneous dough, avoiding mixing of air into the dough. Apply with a spatula up to a maximum thickness of 1,5 mm per layer. Insert a glass-fiber net or synthetic square mesh (eg 4x4 mm) in the thickness of Plast-1 (1st layer englobes glass-fiber net, 2nd layer closes surface). For expansion joints, wall fittings - floor and wall-to-floor, pipes and drains in bathrooms, shower enclosures, apply rubber band to fresh product. Apply the second layer when the first is dry to the touch (about 4 hours depending on temperature). If applied at high temperatures, cure maturation by nebulizing water. Waterproof after 3 days of laying. Maximum flexibility at maturation time of 28 days.

### Product Data

Appearance/color	White Powder	Packaging	Paper bags : 25 kg
Binder Base Plast-1	White Portland Cement, White Alumina Cement (CAC), polymer resin, fibers and selected aggregates.	Granulometry	max: 0,5 mm
Fresh Density	1,5 ± 0,1 kg/L	Yield	~ 1,5 kg/mq per mm di spessore.
Flexural Strength	7 giorni ≥ 2,5 MPa 28 giorni ≥ 3,5 MPa	Compressive Strength	7 giorni ≥ 5 MPa 28 giorni ≥ 10 MPa
Cl ion content	0,013 %	Adhesion	≥ 1 N/mm <sup>2</sup> EN 12004
Water resistance in pushing	: 1,5 atm* (test waterproofing after 28 days)	Water resistance in back pressure	1 atm* (test waterproofing after 28 days)
Cl ions input	< 0,01 %	Dangerous elements (Chromium VI)	None
Capillary Absorption	0,3 kg m-2 h-0,5	Normative	EN 14891:2012

\* Test and values obtained in laboratory, in other ambients ,without standars conditions ,is possible to have different results

**Storage:** 8-10 months from the date of production, if stored properly in the original sealed packaging, in a cool and dry environment.

### Application notes / Limitations

**WARNINGS AND RECOMMENDATIONS** Operating temperature: + 5 ° C to + 30 ° C; In summer mix with cold water; Do not apply in full sun on overheated surfaces and in the presence of strong winds; Do not apply on freezing, thawing or freezing temperatures in the next 24 hours Dampen the surfaces to be treated with water beforehand if they are very absorbent. Protect from rain in the first 24/48 hours from the application Protect from direct sunlight If Working with high temperatures, keep the packages away from the sun before use; After use, it is advisable to wash the work tools with water before the mortar catches; Do not add inert, latex or cement to the product.

**Safety Normes:** Precautions For information and advice on safety and the use and storage of chemicals, it is recommended to refer to the most recent Safety Data Sheet containing physical, toxicological and other relevant safety data. Eyes and hands must be protected. In case of accidental contact with skin or eyes, wash thoroughly with water.

**Ecology:** Do not dispose of the product in dust or empty containers in the environment.

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**Legal Notes:** The technical advice on employment, which we provide verbally or in writing as Customer Assistance or Applicant on the basis of our experience, which corresponds to the current state of scientific and practical knowledge, is not binding and does not demonstrate any legal contractual relationship An accessory obligation with the sales contract. They do not dispense the buyer with their responsibility to personally prove our products as to their suitability for the intended use. For the rest, our trading conditions are valid. The contents of this sheet are binding on the foregoing for verifying the content only if it is accompanied by a special stamp and counterfeit affixed to ours. Headquarters and staff delegated to the above. Deviation from the original foreseen for content and / or use will not imply any liability on the part of the Heres company. The customer is also required to verify that this sheet AND THE EVENT VALUES REPORTED are valid for the item of product of his interest and are not exceeded as they are replaced by subsequent editions AND / OR NEW PRODUCT FORMULATIONS. If in doubt, contact our Technical Office beforehand.

**Technical Specifications:**

Waterproofing of wall structures also countertop, balconies, (even paved), box-shower and in general absorbent and non-absorbent supports, provided that they are stable and consistent by application of mineral impermeabilization in one-component, plastomeric, fibered , Plast-1 of GeoMITS. Hardened membrane can be covered directly with coating or may remain visible and walkable.