



HEST

HESTPROOF CT®

Arcylic Polymer Modified Cement Base Flexible Waterproofing Slurry

Product Description

HESTPROOF CT® is a two-part, acrylic-enhanced cement coating that needs only on-site mixing, making it perfect for waterproofing and resurfacing concrete, masonry, and various other construction materials. It can be easily applied using a stiff brush, roller, or trowel, creating a flexible, waterproof layer. HESTPROOF CT® acts as a strong barrier against waterborne salts and atmospheric gases. When applied as a Slurry, it forms a durable, seamless, waterproof membrane ideal for protecting Watertanks and swimming pools. Can be reinforced with Fibermesh to enhance tensile properties and crack bridging ability capacity .

Application

HESTPROOF CT® is ideal for both external and internal waterproofing, as well as crack sealing. It can be applied to various structures, including:

- Reservoirs, roof foundations, and bar hole sealing.
- Resurfacing concrete and masonry surfaces.
- Waterproofing below-grade applications or as a damp-proof coating.
- Terraces and balconies and Roofing.
- Sea walls.
- Watertanks and Swimming pools.

Advantages

- Strong adhesion to both porous and non-porous concrete surfaces.
- Flexible with thermal expansion properties similar to concrete.
- Helps in reducing labor costs.
- 1.0 mm coating offers anti-carbonation protection equivalent to over 80cm of concrete.
- Waterproof, capable of withstanding pressure up to 3 Bars (30 meters head).
- Excellent bonding to various surfaces, both porous and non-porous.
- Non-toxic, making it safe for use with potable water.
- Suitable for light pedestrian traffic.
- Breathable, allowing the substrate to breathe while repelling water.
- High resistance to the diffusion of carbon dioxide and chloride ions.
- Can be applied 24 hours after casting old concrete, providing immediate protection.

Technical Properties

Pot Life@20°C	60 min
Bond Strength	1.7 - 2.0 N/mm ² ASTM C - 321
Crack Bridging	1.0 mm ASTM C - 1305
Compressive Strength	30 - 35 N/mm ² @ 23°C after 28 days ASTM C - 109
Flexural Strength	10 - 11 N/mm ² @ 23°C after 28 days ASTM C - 348
Water resistance	±3 Bar
Elongation	>13% @23°C after 28 days ASTM D - 412
Tensile Strength	2.6 N/mm ² @ 23°C after 28 days ASTM D - 412
Packaging	HESTPROOF CT® Powder is 20 Kg HESTPROOF CT® Liquid is 5 Kg
Coverage	Approximately 1.0 - 1.25 Kg/m ² / layer depending upon the porosity of the surface. For reinforced system use 1.75 - 2.0 Kg/m ² / layer 2 coats is a must .
Shelf Life	Shelf life is at least 12 months, in original sealed containers, also it must be protected from direct sunlight.



Surface Preparation

- **Surface Cleanliness:** Ensure all surfaces intended for HESTPROOF CT® application are clean, stable, and free from dust, loose particles, grease, oil, curing compounds, mold oils, old primers, or bitumen.
- **Bitumen and Primer Removal:** Remove bitumen or primers using shot blasting or other mechanical methods.
- **Concrete Repair:** Repair spalled concrete by cutting back to solid concrete and patching with the HESTREP range.
- **Surface Preparation:** Proper surface preparation is crucial for all coating systems. Ensure the removal of grease, oil, dust, and any residual curing compounds, mold release agents, or other contaminants that could hinder adhesion. Ideally, laitance should be removed using light sweep blasting or hydro jetting.
- **Small Area Preparation:** For small areas, mechanical wire brushing may be suitable.
- **Spalled Concrete Repair:** Spalled concrete should be cut back to sound concrete and repaired with an appropriate cementitious repair mortar, such as HESTREP RC®. Remove conventional concrete curing compounds before application. Ensure roofing tiles are firmly bedded and grouted before application.

Mixing

- HESTPROOF CT® comes in pre-measured quantities.
- Gradually combine 20 kg of HESTPROOF CT® powder with 5 kg of HESTPROOF CT® liquid in an appropriate mixing container, stirring until the mixture is smooth and free of lumps.
- Avoid adding water or attempting to rework a hardened mix by adding water.
- Allow the mixture to sit for 10 minutes, then re-mix using a drill paddle designed to minimize air entrapment.

Application

- Moisten the surface just before you start applying surface must be saturated surface dry (SSD).
- Avoid using HESTPROOF CT® as a thin paint layer; instead, spread it on the wall and smooth it out.
- If the wall dries out or HESTPROOF CT® begins to drag during application, re-moisten the wall.
- Do not dilute the material.
- Allow the coating to dry for 5 days before adding water.

General Precautions

- Care should be taken when curing in hot, sunny, or windy conditions.
- Do not apply when the temperature is 5 °C or due to fall below 5 °C within 24 hours.
- Pot life at 20 °C approx. 60 min.

Cleaning

Application tools should be washed with soap and water immediately after use

Health and Safety

- Use goggles, gloves, and a breathing mask when applying.
- Apply forced ventilation in confined spaces.
- Remove splashes from the skin with hand cleaner or soap and water.
- Eye splashes are to be washed with plenty of water.
- If ingested seek medical advice.

Additional Information

HEST provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. HEST designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction. HEST reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. HEST extends technical services to include after-sales support to assist users in the proper handling of our products.

