LUTKAY AGRY
G.T & CONSTRUCTION CONTRACTING

AKRE HYDROCUT 2075

Description :

Waterproofing cement compound, of two components (powder A, liquid B), they form a complete waterproofing system after mixing, to prevent water leaks for internal and external application.

Uses :

- Internal and external insulation for old and modern buildings.
- Water insulation for tunnels, irrigation, canals, and dams.
- Insulation for small and huge Beton water tanks, drinking water tanks, and swimming pools.
- Isolate retaining walls and building foundations.
- Insulation for inspection chambers in sanitation and seaports.
- Water-submerged basements and covered channels.

Properties :

- Full isolation system for negative and positive pressure.
- Suitable for application in drinking water tanks for lack of toxic chemicals or smell when applied.
- High flexibility and excellent performance.
- Perfect adhesion and homogeneity with the surfaces applied to them.
- Good resistance to saltwater, sulfur and air pollution.
- Freeze-resistant.
- Protects concrete and reinforcement exposed to water from the effects of chloride and phosphate.
- Easy to prepare and ready to apply.
- Can be used as a final layer without coating.
- In the case of wet surfaces, it is used directly, but on surfaces exposed to negative pressure and flowing water, a quick-hardening cement must be used, and then **Akre Hydrocut 2075** is applied.
- Crack-resistant, even on uneven surfaces.

Steps of application :

1- **Preparation of substrate :**
- The surface must be structurally sound, clean and free from oil, dust, paint and other residues.
- Wetting the surface well, before application, making sure that it is free from any pools of stagnant water.
- If there are holes in the surface (screw and nail holes) it must be dry and free of water.

2- **Application :**

- **Mixing :**
  The liquid component is placed in a clean bowl and then the powder is on top of it (and not vice versa) in a ratio of mixing 20 kg of powder to 5 kg of liquid, then mix constantly using a mechanical low-speed mixer (3-6 minutes) until we reach a homogeneous mixture free of clusters, in a form of paste.

- **Spreading :**
  AKRE HYDROCUT 2075 is applied in two layers in the same direction using a trowel so that we apply the second layer when the first layer is at the beginning of its hardening (still soft), i.e. 3-4 hours after applying the first layer according to the existing ventilation.
  The mixture should be used within 20 minutes after mixing .
  The consumption is : **(1.9 kg / m^2) .**

Post-application recommendation :

- The isolated area should be moistened and watered 24 hours after application for 7 days.
- Tanks, dams, and lakes that are isolated with **AKRE HYDROCUT 2075**, fill after the substance is dry for a period ranging from 3-5 days.
- Do not apply **AKRE HYDROCUT 2075** at temperatures below 5°C.
- Evaporation arrester systems are not suitable for use in the **AKRE HYDROCUT 2075** system.

Cleaning :

- Clean equipment and hands with direct water
- Clean the surface of the stuck material after installation with a wet cloth.

Storage :

- Storage in relatively dry warehouses away from humidity and direct sunlight.
- shelf life 12 months in appropriate conditions.

Packaging :

- **Powder component A :**
  Multi-ply paper bag 20 kg.
- **Liquid component B :**
  Plastic Gallon 5 kg.

Safety recommendations :

AKRE HYDROCUT 2075 is a chemical compound containing substances that cause eye irritation and skin sensitivity so the following safety instructions must be adhered to:

- Wear gloves and goggles while working.
- Wear masks to protect respiratory health.

- Any scratch on the skin or eyes should be treated with pure water immediately.
- If the substance is ingested by mistake, a doctor must be checked immediately without attempting to stimulate vomiting.

Technical properties;	
COLOR	**Powder A: White Liquid B: White**
Density	**1.9 g/cm3**
Pressure stress after 28 days :	**35 Mpa**
Tensile stress :	**3.3 Mpa**
Flexibility factor :	**2.9 Gpa**
Adhesion stress :	**1.66 Mpa**
Resistance on negative pressure	**20 bar.**
Abrasion resistance (new concrete equation)	**72**
Expansion of sample in hard environment	**No expansion 0%**
Effect of see water (after 90 days in high salt concentrated solution)	**No effect 0.0275%**
Sulfur salts (after 90 days in high sulfuric salt concentrated solution)	**Good resistance on long-term 0.413**
Water leakage inside AKRE HYDROCUT 1075 under the pressure of 8.4 bar continuously for 24 hours	**0 mm**
Resistant to solvents and alcohols	**High (as per ASTM 543)**
Resistance to oils	**High (as per ASTM 543)**