

UC1 TECHNICAL SPECIFICATION

Waterproofing and Thermal Insulation Paint

Product Description:

UC1 is Off-white colored Thermal Insulation, waterproofing and Anti-leakage paint.

Composed of advanced natural chemical, eco-friendly, anti-bacterial and non-flammable compound made out of ceramic, marble, Aluminum Oxide and other components to be mixed with water based silicon and clean water.

UC1 Decreases the temperature 20% for Concrete Surfaces and 40% for Steel Surfaces, by decreasing the absorption of heat and dispersing the heat in an aero-physical action.

Standard Application:

UC1 is used for painting all kinds of Concrete and Steel Surfaces cement boards and Metal, Steel & Galvanized Steel Sheets, Petroleum Pipes and Tanks.

Mixing Method:

1. Inside the pail there are two packages: Powder and Liquid Silicon ones.
2. Pour 6 liters of clean water (till the filling mark inside the pail).
 - a. *Note: 10% more of the water quantity can be added to the mixture during Hot weather (35° and above)*
3. The Powder component should be added gradually and mixed thoroughly for 2 minutes by using electrical mixer.

4. Add the whole quantity of the Liquid Silicon to the mixture and mix thoroughly for 7 to 10 minutes using electrical mixer.
5. The mixture should be left to rest for 10 minutes after mixing and before the application.



Surface preparation Method:

- The Surface must be cleaned by water pressure to remove any impurities and dust.
- Scrub and clean entirely any bitumen, Fungus, oil, paint, algae, cement or rust if found on the surface.
- Any structural cracks (due to structural movement or weakness) in concrete should be treated prior applying UC1.
- The surface must be made wet before starting UC1 paint job.



UC1 General Information:

- The Thickness of each paint layer should not exceed 250 micron to avoid cracks in more thick paint layers.
- Protect the painted surfaces from water for a period of 12 to 24 hours (depending on the surrounding temperature) for UC1 to get hardened and adhere to the paint surface.
- UC1 will get its maximum hardness levels within 10 days of the paint job in a moderate temperature area.
- It is restricted to add any other component to UC1 mixture rather than the recommended required water quantities.
- It is restricted to apply UC1 paint to un-cured concrete.
- UC1 mixture must be applied within a maximum period of 120 minutes otherwise it will get hardened.
- One pail of UC1 can be applied for at least 25m² (made of 3 layers) on concrete fair surface.

Total thickness is 750 micron for the 3 layers.

- One pail of UC1 can be applied for at least 35m² (made of 3 layers) on metal or steel surfaces. (It is recommended to apply 4 layers of UC1 on Metal surfaces in harsh hot areas –deserts)

Each layer thickness is 250 micron.

- Each next layer of UC1 paint should be applied within 1 hour from finishing the previous one.
- UC1 can be painted using paint rollers or by Air-Brushing for the concrete surfaces. **It is recommended to apply it by Air-Brushing for Metal and steel surfaces.**

Notes:

- When using the paint rollers to apply UC1 on the concrete surfaces, the first layer will consume a doubled quantity than second and the third layers and the Pail will cover at least 25m² of the area.
- The UC1 mixture must not be painted if the temperature is less than 3° or higher than 47°.
- UC1 is suitable for all Climates (Tropical, Subtropical, Mediterranean and Desert,...)
- The Gross Weight of each UC1 pail is 20kg. (made of 1 pack 5kg of silicon and another pack of 14.5kg of the powder Compound)
- UC1 should be stored in a dry area away from direct sunlight and away from children.
- UC1 is Eco-Friendly, Antibacterial, Non-Flammable, Odorless and Not Harmful. If stuck to the hands, it can be cleaned by Alcohol.

