



UC4 TECHNICAL SPECIFICATION

High Expansion (400%) Water Base Compound

UC4 Product Description:

- UC4 is a White Colored Silicon Compound.
- UC4 has very high Elasticity (400%) and is a good impact resistant.
- UC4 is Tear Resistant and UV Resistant.
- UC4 has good resistance to dilute acids and alkalis.
- UC4 is Sealant and Waterproof.
- UC4 is advanced natural chemical compound.
- UC4 is Eco-friendly, Antibacterial & Non-flammable.



UC4 Standard Application:

- 1- UC4 Used to Paint all kinds of old and cracked Concrete surfaces if diluted with 8 Liters of clean water.
- 2- UC4 is used to fill structural cracks and high movement civil joints (Bridges), and common buildings.
- 3- UC4 is used for Vertical and horizontal cracks and joints. (Vertical joints should be gunned).
- 4- UC4 could be applied on 3 layers and it will work as impact resistance between the 2 layers of concrete (substrates and floors of Central Tanks)

Mixing Method:

1. For surface painting, gradually add up to 8 liters of clean water (as per the required thickness) and mix by using electrical mixer for 5 minutes.
2. For joint filling, don't add any other component to UC4.





Surface preparation Method:

- The Surface and joints 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.
- The surface and joint must be made wet before starting UC4 paint or pouring (gunning) job.

UC4 General Information:

- Protect the painted surfaces from water for a period of 48 to 72 hours (depending on the surrounding temperature).
- For filled joints it must be protected from water for 7 days for UC4 to complete curing.
- UC4 will get its maximum curing levels within 7 days of the application.
- It is restricted to add any other component to UC4 compound rather than the recommended required water quantities.
- It is restricted to apply UC4 to un-cured concrete.
- UC4 must be applied within a maximum period of 180 minutes otherwise it will get hardened.
- One pail of UC4 can be applied for at least 40m² (made of 3 layers) on concrete fair surface.

Total thickness is 750 microns for the 3 layers.

- Each next layer of UC4 should be applied within 1 hour from finishing the previous one.
- UC4 can be painted using paint rollers.
- UC4 can be painted as base layer prior to painting UC1 for on aged Substrates and surfaces.

Notes:

- When filling joints deeper than 5cm, UC4 must be poured on 2 phases with a period of 1 hour between them.
- When using the paint rollers to apply UC4 on the concrete surfaces, the first layer will consume a doubled quantity than the second and the third layers and the Pail will cover at least 25m² of the area.
- The UC4 must not be painted or applied if the temperature is less than 3° or higher than 47°.
- Temperatures higher than 200° centigrade can damage UC4 and cause the disintegration of the compound.
- UC4 is suitable for all Climates (Tropical, Subtropical, Mediterranean and Desert,...)
- The Gross Weight of each UC4 pail is 19kg.
- UC4 should be stored in a dry area away from direct sunlight and away from children.
- UC4 is UV resistant, impact resistant, tear and wear resistant.
- UC4 is Eco-Friendly, Antibacterial, Non-Flammable, **Odorless** and Not Harmful. (If stuck to the hands, it can be cleaned by Alcohol).

