



KUT EPOXYCOATING "SWP"

100% Solids Waterproof Epoxy Coating

PPC – 07 - 0104

DESCRIPTION

KUT EPOXYCOATING "SWP" is a high performance epoxy paint system suitable for application to most surfaces. The facility to be applied to wet or dry surfaces provides a limitless range of situations where it can be used. It consists of a primer coat and finish coat. Both are supplied as a 2 component materials in pre-weighed quantities ready for on-site mixing and use. The finish coat is available in light grey colour. The primer is a clear straw yellow coloured material.

USE

KUT EPOXYCOATING "SWP" is primarily intended as a water proofing barrier in tanking situations such as swimming pools, water fountains, terrace gardens etc.

ADVANTAGES

- **Quality** : Factory quality controlled pre-weighed quantities reduces site errors.
- **Adhesion** : Equally effective on dry or damp surfaces. It exhibits good adhesion to concrete, brickwork, stone, asbestos, wood, steel and ceramic surfaces.
- **Durability** : It can withstand conditions of high temperature, humidity and UV exposure.

TYPICAL PROPERTIES

- **Mixing ratio** :100:10 by weight
- **Pot life**: 45 minutes at 25° C (200gm mix)
- **Open Tack Time**: 2-3 hours at 30° C.
(Note: Both base and hardener should be at 25° C).
- **Tacky Period**: Is the time period after application when 5mm aggregates should be sprinkled on the coating.
This is 15-120 minutes after application at 25°C.
- **Cure Time**: Tackfree in 8 hours at 25°C.
- **Initial Hardness**: 24 hours.

- **Tanking Test** : After 3 days at 25° C.
After 1 day at 40° C.
- **Full Cure** : 7 days at 25° C.
- **Minimum Application Temperature** : 5° C.
- **Mortar Application** : After initial hardness, 24 hours at 25° C.
- **Pot life** : 1 hour at 15° C.
30 minutes at 25° C.
- **Cure Time** : Tack free in 8 hours at 25° C. Finish coat should be applied within 72 hours after primer coat. Otherwise the surface is to be properly abraded wiped clean with a cloth dipped in **KUT SOLVENT EP** and then a fresh coat of **KUT EPOXY PRIMER "W"** or **KUT BOND EP** should be applied.
- **Intercoat Interval** : 8 to 24 hours at 25° C. **KUT EPOXYCOATING "SWP"** to be applied during this period.

APPLICATION SYSTEM

Surface preparation : Thorough surface preparation is vital. We recommended light mechanical scarifying. The use of acid etching as a preparation technique is only accepted where mechanical cleaning is not possible. New concrete must be cured for at least 21 days and must have a moisture content of less than 5% and does not suffer from rising damp conditions. Expansion Joints in existing substrates should be continued and must not be coated with **KUT EPOXYCOATING "SWP"**. The expansion joints should be continued till the final filing stage and should be filled to the required level subsequently with a suitable sealant.

Primer application : A fully prepared surface should be primed using **KUT EPOXYPRIMER "W"** or **KUT BOND EP** prior to the application of **KUT EPOXY COATING "SWP"**.

KUT EPOXYPRIMER "W" or **KUT BOND EP** is supplied in pre-weighed packs for on-site mixing and use. Do not add solvent and thinners. Mix the base and hardener together in the base container for atleast 2 minutes and apply with the help of a brush or roller at a spread rate of 5 to 8 m² per kg.



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NOTE: In order to obtain a longer working life of the mix, it is recommended that the packs should be stored in cool place maintained at 15°C.

Application: **KUT EPOXYCOATING "SWP"** is supplied in pre-weighed packs ready for on site mixing and use. Do not add solvent or thinners. Mix the base and hardener in the base container using a paddle until a uniform mix is obtained. It is beneficial to store the base and hardener containers around 15° C prior to mixing. Mixed material can be transferred to a shallow vessel such as a tray prior to application by roller or brush. In this way, the working life of the material can be extended due to reduced exotherm build up. The material is applied at the rate of 1.5 to 2 m² per kg. or 7.5 to 10 m² per pack of 5kg.

Shake on aggregate: The 5mm aggregates used for sprinkling on the **KUT EPOXYCOATING "SWP"** coat should be dust free and uniformly graded. After 15 minutes application of **KUT EPOXYCOATING "SWP"** the aggregates may be sprinkled on the surface. The aggregates will stick on the surfaces when the coat is tacky i.e. upto 2 hours at 25° C.

Tanking test: To check the efficiency of water proofing, tanking test may be done after 1 day at 40°C and after 3 days at 25°C. If any leakage occurs, empty the tank, dry it and apply more **KUT EPOXYCOATING "SWP"** to the defective area with a further sprinkling of aggregate.

Subsequent applications: Rendering - A cement render may be placed after 24 hours. This mortar may have an added water proofing by using **KUT POLYFIX SBR**. A typical mix design of such a mortar may be as follows:

- I. Cement: 50 kgs
- II. Sand: 150 kgs
- III. **KUT POLYFIX SBR:** To mortar consistency usually about 25 to 30 litres. The mortar placement may be done after tanking test. The use of **KUT POLYFIX** is optional. It improves the water proofing characteristics of the render.

Tiling : Tiles may be placed on this render using water proof tiling adhesives such as **KUT TILE MORTAR**.

Please refer to **KUT TILE MORTAR** product datasheet for tiling procedure. Alternatively the tiles may be fixed and grouted in one continuous operation using **KUT EPOXY TILE GROUT**, this provides the best adhesion and chemical resistance properties.

Grouting: Grouting of tile joints in swimming pools and other such application is to be done with water proof tile grout and not with neat cement slurry.

The most suitable product for such application is **KUT EPOXY TILE GROUT**. Alternatively **KUT TILE GROUT** mixed with **KUT FLEXIBOND** diluted 1 : 1 by water instead of, water for mixing is specially recommended for such situations.

NOTE: Expansion joints if any should be filled with suitable sealant such as polysulphide and polyurethane.

Coverage : Coverage of **KUT EPOXYCOATING "SWP"** depends on the substrate usually in the region of 1.5 to 2 m² per kg or 7.5 to 10 m² per pack of 5 kg.

The coverage of **KUT EPOXYPRIMER "W"** or **KUT BOND "EP"** is 5 to 6 m² per kg.

PACKAGING

KUT EPOXYCOATING "SWP" is available in 5 kg pack consisting of base and hardener. Two packs in a carton.

KUT EPOXYPRIMER "W" is available is 1 kg pack consisting of base and hardener. 3 packs in a carton. **KUT BOND "EP"** is available in 20 kg pack.

PRECAUTIONS

Cleaning: Spillages should be absorbed with sand or earth etc; and disposed in accordance with local regulations. Clean tools and equipment with water/solvents immediately after use.

Storage: Store in dry conditions upto 20° C. Shelf life is 12 months.

PERFORMANCE STANDARDS

ASTM-C 881 - Type I & III, Grade 2, Class B&C.
ASTM-C 882/1987 when used as per recommended procedure.
DIN 1048 Part 2 for water impermeability test.

HEALTH AND SAFETY

KUT EPOXYCOATING "SWP" should not come in contact with skin, and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used.

If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream, followed by washing with soap and plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

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