

KUT DURAGUARD CP - III

Polyurethane, Protective Traffic-Deck Coating System

PPC-45-0712



DESCRIPTION

KUT DURAGUARD CP - III is a UV stable, polyurethane based multi-component vehicle park decking system for exposed and intermediate traffic decks where crack bridging and waterproofing properties are required.

KUT DURAGUARD CP - III has been tested for crack bridging in accordance with **ASTM C836**.

- **KUT DURAGUARD PRIMER** – is a high grade, low viscosity, two component epoxy resin primer and substrate sealer.
- **KUT DURAGUARD MEMBRANE** – is a two component solvent free polyurethane membrane suitable for used in trafficked coating systems that require crack bridging capability. When used in car park decking systems it will bridge dynamic cracks.
- **KUT DURACOAT PU GP** – is a Multi component polyurethane coating designed for application as topcoat on traffic deck systems. It provides a UV-resistant, hard elastic surface resistant to general and vehicle related chemicals spillage and abrasion.

USES

- Vehicle park decks
- Traffic Ramps
- Heavy duty turning areas.

TYPICAL PROPERTIES

KUT DURAGUARD PRIMER: Cured at 7 days @ 20°C.

Pot life @ 25°C	30 mins
Density	1.09
Bonding Strength	Failure in concrete.
Application time	Approx. 20 mins. at approx. 25°C
Application temperature	10°C to 45°C substrate temp.
Recoat after	Approx. 6 hours at 30°C Approx. 12 hours at 20°C

Mix ratio A:B	5:1 by weight
Mixed density	1.47 gm/cm ³
Pot life at 25°C – 30 kg unit	25 minutes
Tensile Strength DIN 412	10 N/mm ²
Elongation at break DIN 412	60%
Shore A Hardness	Approx. 80

KUT DURACOAT PU GP: Typical Properties

Colour	Various
Solids (vol %)*	63 ± 2
Flash Point	34°C ± 2 (Seataflash)
Gloss	Glossy
Gloss retention	Excellent
Water Resistance	Very Good
Abrasion Resistance	Very Good
Solvent Resistance	Very Good
Chemical Resistance	Very Good
Flexibility	Very Good

*measured according to ISO 3233 : 1998 (E)

MIXING AND APPLICATION

Surface Preparation: The surface to be coated must be clean, dry free of laitance, oil, grease or any substance that may impair adhesion. The preferred method of surface preparation are captive blasting, surface grinding or similar. Weak or damaged concrete must be removed, then replaced with a suitable repair compound from the **KUT** range of products. Surface defects should be repaired using **KUT EPOXY MORTAR FC** or other suitable repair compounds from the **KUT** range.

Priming: Mix and apply **KUT DURAGUARD PRIMER** surface conditioner to the prepared dust free surface at approximately 0.15 – 0.30 kg/m².

Mixing:

Mixing for **KUT DURAGUARD MEMBRANE:** Mix the



مصنع التخصصية لكيموايات البناء
SPECIALITIES CONSTRUCTION CHEMICALS FACTORY

Marketed by: Alghanim Specialities Co. W.L.L.
Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait
Tel: 1802550 – 400 - Fax: +965 24582548 - Email: sales@spec-kw.com



Part A & Part B components of the **KUT DURAGUARD MEMBRANE** together using a slow speed (400 rpm) drill with a spiral mixing head. Work the mixer round the mixing pail to ensure it scrapes the side and bottom of the pail. Pour mixed material into a clean pail and mix for a further 30 seconds.

Pour the mixed material onto the floor and spread at the required coverage (min. 0.5 kg/m²) using pin screed or trowel.

Note:

KUT SILICA SAND NO. 1 or **KUT SILICA QUARTZ NO. 1** – a graded, high purity quartz aggregate with a particle size in the range of 0.3 – 0.9 mm. used as a multi action: mechanical key, wear enhancer and to provide skid, resistance, it's use is the means by which thickness is attained with economy for the various wearing conditions such as: in traffic lanes, ramps and turning areas.

It may be used on wet primer as well as **KUT DURAGUARD MEMBRANE** .

Any loose excess aggregates shall be removed by sweeping or vacuuming after complete setting of the primer or the membrane.

Topcoat: Apply KUT DURACOAT PU GP.

Chemical Resistance: Contact **ASPEC** Technical department for specific details.

PACKING AND COVERAGE

KUT DURAGUARD PRIMER	1 kg pack
KUT SILICA SAND NO. 1	25 kg bag
KUT SILICA QUARTZ NO. 1	25 kg bag
KUT DURACOAT PU GP	4 liter and 20 liter pack

Coverage:

- **KUT DURAGUARD PRIMER**- 5 – 8 m²/ pack depending of the porosity of substrate @ 0.1 – 0.2 mm dry film thickness.
- **KUT DURAGUARD MEMBRANE** – 10-15m² / pack @ 1 – 2 mm dry film thickness
- **KUT DURACOAT PU GP** – 7 – 10 m² / liter /coat @ 100 – 150 micron dry film thickness.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advices consult ASPEC Technical Service Department.

HEALTH AND SAFETY

KUT DURAGUARD CP - III should not come in contact with skin eyes or be swallowed. Avoid prolonged inhalation of the vapours. Some people are sensitive to isocyanates, therefore, protective gloves, goggles, and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus should be used. If an accidental eye contamination occurs with any of the above products, wash well with plenty of clean water and seek medical advice immediately. **DO NOT INDUCE VOMITING.** Refer our safety data sheets before using this material.

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