

KUT EPOSIL 100

Polysulfide Modified Epoxy, Flexible Industrial Floor Joint Sealant

JOS-08-0912



DESCRIPTION

KUT EPOSIL 100 is a two component 100 % solids epoxy joint filler with polysulfide modified epoxy resin chemistry to facilitated limited joint movement capabilities.

KUT EPOSIL 100 is ideal joint sealant for filling control and construction joints in industrial concrete floors. **KUT EPOSIL 100** reduces the joint edge damage, a major concern in the case of trafficked industrial floors. It has good adhesive strength and flexibility over a wide temperature range.

USES

- Saw cuts, control joints in concrete substrates
- Cracks in older floors

ADVANTAGES

- High abrasion resistance.
- Excellent bond strength with concrete.
- No bonding agent or primer required.
- Stiff but resilient-absorbs floor vibrations and wheel impact.
- Reinforces joint edges to prevent spalling in heavy duty areas.
- 100% solids –no shrinkage.
- Modified epoxy-fast curing.
- Self leveling grade-Easy to use and finish.
- Supplied in pre-weighed units.
- Resistant to wide range of chemicals.

TYPICAL PROPERTIES

Colour:	Grey
Consistency:	Self-leveling, flowable liquid
Mixed Density	1.24 kg/Litre
Pot life at 25°C	2 hours
Cure Time:	24 hours at 24°C 12 hours at 35°C

M.A.F % (BS 4254)	10 %
Tensile strength (ASTM D 412)	6 Mpa at 7 days
Elongation (ASTM D 412)	100 %
Shore 'A' Hardness	80
Mixing ratio by weight:	1 Base: 1 Hardener
Adhesion to concrete:	2.5 Mpa at 7 days
Service temperature:	0°C to 65°C

STANDARDS

Complies with requirements of ACI 302, Section 4.10 "Recommendations for epoxy joint fillers used saw cut/control joints"

CHEMICAL RESISTANCE

KUT EPOSIL 100 has good resistance to the following: most aqueous system, urine, sea water, diluted and concentrated alkalis, diluted acids, petroleum based fuels, sulphur gases, minerals, vegetable, animal oils and fats.

APPLICATION

Surface preparation

Concrete should be fully cured. Allow sufficient time for initial shrinkage of the concrete to take place. Joint surface must be structurally sound, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds. Membrane materials and any other foreign matter. Clean concrete and other masonry where necessary by grinding, sand blasting or wire brushing. Expose a sound surface free of contamination and laitance. If used to treat the cracks in concrete floor, the cracks should be routed and cleaned before filling and edges shall be squared.

Priming

Priming only required on joints re-dressed using epoxy mortars or on very porous substrate.

Joint backing



مصنع التخصصية لكيماويات 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



KUT EPOSIL 100 shall be filled in the full depth of the joint or crack to achieve best load transfer. In case if used as control joint filling material under the resin based overlays then fill at least 10 mm depth from the top and rest of the void can be filled using stiff closed cell backing material such as extruded polystyrene.

Mixing

Mix **KUT EPOSIL 100** by adding the hardener to the Base and mix using drilling machine (400 RPM) fitted with a paddle to lumps free smooth consistency. During mixing make sure that the paddle reaches the bottom and scrapes the side of the container several times. Also scrape the paddle itself to ensure thorough mixing. To avoid whipping air into the material, keep the paddle blade below the surface of the **KUT EPOSIL 100** material.

Clean the equipment with **KUT SOLVENT EP** immediately after use. Cured material must be removed mechanically.

Placing

Pour **KUT EPOSIL 100** from a spouted can or apply by a professional bulk-loading caulking gun. Trim excess materials within 24 hours to get even finish. While using caulking gun, fill joints from bottom up using a properly sized nozzle. Proper tooling assures the correct bead configuration and a neat joint.

Curing

KUT EPOSIL 100 will gain strength to receive traffic within 24 hours, full chemical cure shall be reached within 7 days at 25°C.

LIMITATIONS

- In hot weather conditions, pre-condition **KUT EPOSIL 100** at 20°C for at least 24 hours before use to obtain extended working life.
- Not intended to use for expansion/isolation joints.
- Not designed for exterior use.
- For proper adhesion, concrete must be minimum 28 days old and have less than 5% moisture content.
- Cure time must be extended in cool conditions.

- **KUT EPOSIL 100** may yellow in the presence of unvented artificial heat or high intensity lighting. This does not affect sealant performance.
- Mechanically roughen before painting/overlay.

COVERAGE

2 kg pack shall yield 1.61 litre of mixed materials.

Material estimate: linear meter/pack of 2 kg				
Joint width	Joint Depth			
	10 mm	15 mm	20 mm	25 mm
5 mm	33.0	22.0	16.5	13.0
8 mm	20.5	13.5	10.5	8.35
10 mm	16.5	11.0	8.35	6.65

Joint variation and wastage may reduce the coverage packing.

PACKAGING

KUT EPOSIL 100 is normally supplied in 2 kg units consisting of Base and hardener.

STORAGE

KUT EPOSIL 100 in original containers when kept in dry conditions at 5°C to 27°C has a shelf life of 12 months.

HEALTH AND SAFETY

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

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