

TIKISEAL PU2K



Two-Part Polyurethane Sealant – Pourable Grade

DESCRIPTION

TIKISEAL PU2K is two component low modulus pouring grade elastomeric sealant based on Polyurethane liquid elastomer. It consists of a base & accelerator (curing agent). When two components are mixed together, a chemical reaction is initiated which cures instant to a firm, flexible seal with excellent adhesion to concrete, masonry, wood, glass, acrylic and PVC plastics.

It is capable of withstanding repeated extension, compression & cyclic movements in horizontal joints without loss of adhesion and resists deterioration by weathering, sunlight, ozone, water, salt, oils and fuels.

It is far superior to all the conventional joint sealant material like bitumen, mastics, metallic channels, and expansion sheets.

USES

- Sealing, maintaining and re-sealing of expansion, contraction & construction joints in structure such as, industrial floors, concrete pavement, highways, runways, airfields, warehouses, parking areas, etc.
- Sealing movement joints in areas, which are affected by fuel, oil, fire etc., such as oil terminals, garages, petrol pumps, aircraft fueling areas, ports.

ADVANTAGES

- Cures at ambient temperatures to a tough, elastic, and flexible rubber like material.
- Bonds strongly to most of the building material.
- Durable, remains unaffected by UV rays, ozone, and weathering conditions.
- Resistance to water, salt water, 10% dilute acids except nitric acids, alkalis, most of the common chemicals, vegetable oils, lubricants, oils and fuels.
- Non-Staining to concrete, masonry or stones.
- Fuel and Fire Resistance.

- Movement capability - Provides satisfactory hermetic sealing of joint subjected to expansion, contraction, vibration, and cyclic movement with in the following limits - Movement joints up to 30% of the width.
- Resilient - Recovers original width after expansion and contraction without losing the surface bond.

STANDARD

TIKISEAL PU2K Complies to BS:5212: 1990 Type N, F & FB (Normal, Fuel and Fire Resistance).

PROPERTIES

TECHNICAL DATA	VALUE
Nature	2 Component
Mixing Ratio (Base : Curing Agent)	90:10
Consistency after Mixing	Flow able Paste
Setting Time @ 35 ⁰ C	10 to 16 Hours
Complete Curing Time @25 ⁰ C (At low temperature, curing rate is slow)	7 Weeks
Color - Mix Compound	Black / Grey
Shore A Hardness	15 ± 5
Movement Accommodation Butt joints (movement in tension and compression)	30%
Mixed Density	1.35 ± 0.05 Kg./Litre

JOINT PREPARATION

The joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and free from dust, coating, bituminous mastics, concrete curing agents, mould release agents, oils, greases, and loose particles.

Clean joint by wire brush and sand with emery paper.

Remove dust by oil free compressed air/ paint brush.

Wipe out oil and grease by solvent soaked cloth (such as xylene, toluene, or acetone.)

JOINT SIZE SUITABILITY

Joint Width (mm)	Single application - Min.6, Max.25 Multiple Application - 50mm
Joint Depth (mm)	Porous Substrate - Min.10, Max.25 Non-Porous Substrate - Min.6, Max. 25
Width : Depth	Butt Joint - 2:1 Floor Joint - 1:1

APPLICATION INSTRUCTIONS

Avoid application below 10°C temperatures.
Avoid application on damp or moist substrate.

MASKING TAPE

Apply self-adhesive masking tape, such as clothe tape, polyethylene tape, cellophane on both edges of the joint. It is used to improve the neatness of finished seal by protecting the face edges of the joint. It may be removed immediately after tooling of the sealant.

PRIMING

For porous or absorbent surfaces, application of two coats of **TIKI PRIME-PS** primer is recommended, the primer applied by brush on sides of joints surface at interval of 30 minutes. Allow primed surface to become touch-dry before application of **TIKISEAL PU2K**.

BACK-UP MATERIAL

A suitable back-up material, such as cross-linked PE foam, strip or rod should be inserted in to the joint to provide correct joint depth for **TIKISEAL PU2K**.

BOND BREAKER

If joint is not deep enough to accept back-up material or if inserted back-up material surface is contaminated with primer, a bond breaker tape (self-adhesive PE) should be inserted into base of the joint or above the back-up material to avoid adhesion to third surface.

MIXING

The base and accelerator compounds supplied are packed in pre-weighed quantity as per mixing ratio.

Mix the material of individual container. Transfer entire quantity of accelerator to the base compound tin and mix it thoroughly to a uniform grey colour.

Mixing can be done manually with spatula, palette knife or special flat stirrer attached to a low speed electric mixer.

POURING

After mixing the two components, the mix is suitable for pouring directly from the container into the joints. Pour the mixed material in to the joints. This pourable grade level itself to form a smooth and clean surface.

The finished level of the seal should be recessed below the trafficked surface.

FINISHING

It is desirable that a smooth surface is obtained. Tool the sealant by pressing puffy knife or flat tool against sealant surface, moving along the length of the joint.

Tooling breaks air bubbles and exposes any air pockets present. Tooling compresses the sealant, thus promoting adhesion to the joint sides.

After tooling the masking tape should be removed immediately. Soap solution can be used to smoothen the sealant surface.

COVERAGE

TIKISEAL PU2K Sealant: The number of running meter work done in 1 kg. of **TIKISEAL PU2K** sealant, can be calculated by following formula: -

$$L = 725 / (W \times D)$$

Where,

L = Length of the joint in linear running meter

W= Width of the joint in mm.

D = Depth of the joint in mm.

GUIDE TO TIKISEAL PU2K COVERAGE

Joint Size, mm	R.Mtr./Kg.	R.Mtr./4Kg.
5x5	29	116
10x5	14.5	58
10x10	7.25	29
20x10	3.625	14.5
40x20	0.90	3.60

CLEAN-UP

Use Aromatic Solvents for cleaning equipment and tools immediately after applying TIKISEAL PU2K.

SUPPLY

TIKISEAL PU2K is supplied in pack sizes of 4Kg., consisting of Base: 3.6Kg., and Curing Agent: 0.4 Kg.

STORAGE

TIKISEAL PU2K must be stored above 5°C. Store under the shed & protect from extremes of temperature. Keep container close when not in use.

SHELF LIFE

Shelf life is 12 months when stored as above and in Original Sealed Container. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of TIKISEAL PU2K to avoid contact with eyes, mouth, skin, and foodstuffs until product is fully cured/dried.

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TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078, Maharashtra, India. T: +91 22 4126 6699

E: info@tikidan.in | W: www.tikidan.in



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