

TIKISEAL PU40



1K PU Based Joint Sealant

DESCRIPTION

TIKISEAL PU40 is ready to use one component moisture cured gun grade elastomeric PU joint sealant complying to ASTM C920 standard specification for elastomeric joint sealants .

Once cured, **TIKISEAL PU40** forms a highly flexible and durable elastomeric seal that strongly adheres to most construction and industrial substrates.

ADVANTAGES

- Permanently elastic over a wide range of temperatures
- Durable, remains unaffected by U.V and weather conditions
- Non-staining to construction substrates
- Low dirt pick-up post curing
- Exhibits good adhesion to many un-primed surface
- Does not support microbial, fungus and mildew growth
- Wide range of colours and excellent smooth finish
- Low VOC – environmental friendly
- Single component – quick and ease of application
- Excellent low temperature extrudability
- Cures at ambient temperatures to a tough, elastic, and flexible rubber like material
- Resilient - recovers the original width after expansion & contraction without the losing the surface bond

USES

TIKISEAL PU40 is highly suitable for sealing:

- Expansion and construction joints in rigid pavements and building structures including facades
- Internal and external pedestrian ways
- Industrial and warehouse floors
- Connection and isolation joints

PROPERTIES

Property	Value
Colour*	White, Black, Grey
Density	1.45 g/ml ± 0.10
Skin over time	25 to 45 Minutes
Curing time @ 23 ⁰ C & 50% RH	24 Hour (2 to 3mm)
Tensile Strength (ASTM D412)	>1.5 MPa
Elongation at Break (ASTM D412)	> 500%
Shore A Hardness (ASTM C661)	40
VOC Content	< 3%
Application Temperature	5°C to 40°C
Service Temperature	-30°C to 100°C
Movement Accomodation	30%

*Standard colors. Specific color can be tailor made to meet the end user requirement.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces coming in contact with **TIKISEAL PU40** should be clean, dry, and free from loose dirt, dust, laitance, oil, grease or any other contaminants, which may impair the adhesion of **TIKISEAL PU40**.

Metal surfaces should be cleaned and degreased.

For a neat finish, apply masking tape and remove it after tooling the sealant and before sealant has skinned over.

APPLICATION

Cut tip of cartridge / sausage with a sharp knife. Cut nozzle at 45° angle to desire bead-width and apply to substrate with cartridge gun. Firmly extrude sealant into slot ensuring complete contact with joint faces.

Once applied **TIKISEAL PU40** should be tooled within 30 minutes before skinning occurs to ensure good contact with joint faces. It attains tack free time of 35 to 60 minutes.

Uncured sealant can be cleaned up with mineral spirits. Use approved backing material for joints over 10mm deep.

COVERAGE

The number of running meter work done in 600ml sausage of **TIKISEAL PU40 sealant**, can be calculated by following formula: -

$$L = 600 / (W \times D)$$

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 PU40** COVERAGE* (per pack size of 600ml sausage)

Joint Size, mm	Estimated Length
6 x 6	17.2 meter
10 x 10	6.8 meter
20 x 10	3.5 meter

*Coverage is approximate and it depends upon the site conditions and surface porosity at the time of application

PAINTING

TIKISEAL PU40 is compatible and can be overcoated with many conventional water based paints, but prior trial for checking the compatibility of water based paints is recommended.

For overcoating with alkyd paints, use of suitable water based undercoat is recommended.

Paint Type : Suitability*

- Water based emulsion paint : OK
- Water based primer sealer : OK
- Water based undercoat : OK

- Water based top coat : OK
- Alkyd resin paint: Use water based undercoat first
- Traditional solvented paint: Use water based undercoat first
- Traditional oil based paint : Use water based undercoat first
- Traditional exterior paint: Use water based gloss paint as undercoat first
- Cellulose based auto paint : OK
- PU based auto paint : OK

*Compatibility data is based on trials carried in in-house laboratory under ideal condition. Carrying of pre-liminary trials at site is recommended.

LIMITATION

- **TIKISEAL PU40** is not suitable for use in areas having pool of chlorinated water or salt water, such as swimming pools, spas, etc.
- **TIKISEAL PU40** is not compatible with PE, PP, Teflon, Neoprene and bituminous surfaces.
- **TIKISEAL PU40** is not suitable for use in glazing applications.
- **TIKISEAL PU40** should not be overcoated with alkyd resin paint, as it inhibits the curing of the alkyd paint.

SUPPLY

TIKISEAL PU40 is supplied in 600ml Aluminium foil sausage (20 no.s packed in 1 box) and in 310ml plastic cartridge (25 no.s packed in 1 box).

STORAGE

TIKISEAL PU40 must be stored above 5°C. Store in a dry and cool place with temperature below 30°C under the shed and protect from extremes of temperature.

SHELF LIFE

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

*Coverage is approximate and it depends upon the site conditions and surface porosity at the time of application

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **TIKISEAL PU40** to avoid contact with eyes, mouth, skin, and foodstuffs until product is fully cured/dried.

Uncured adhesive / sealant causes skin and eyes irritation upon contact.

- Avoid contact with eyes, skin and mouth.
- In case of contact with eyes, flush with water immediately for 15 minutes. If irritation persists, seek medical attention.
- Keep out of reach of children. Use in well ventilated areas.

VERSION: R2, 201912

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