

## 1K PU Based Joint Sealant

### DESCRIPTION

**TIKISEAL PU25** is ready to use one component high performance PU based U.V, weather and temperature resistant non-staining gun grade elastomeric sealant.

Once cured, **TIKISEAL PU25** forms a highly flexible and durable elastomeric seal that strongly adheres to most construction and industrial substrates.

**TIKISEAL PU25** is specially formulated non-staining sealant for application to various substrate associated with modern façade construction.

### ADVANTAGES

- Permanently elastic over a range of temperatures.
- Durable, remains unaffected by U.V and weather.
- Non-staining to construction substrates.
- Low dirt pick-up post curing.
- Exhibits good adhesion to many un-primed surfaces.
- Does not support microbial, fungus and mildew growth.
- Wide range of colors and excellent smooth finish.
- Low VOC – environmental friendly.
- Single component – quick and ease of application.
- Excellent low temperature gunnability.
- Cures at ambient temperatures to an elastic, and flexible rubber like material.
- Resilient and tolerant to damp surfaces.

### USES

**TIKISEAL PU25** is highly suitable for sealing joints in building facades:

- Where high movement is anticipated.
- Non-staining is a requirement.

- Prestige finish is important.
- Extreme weather conditions are expected.
- It is also ideal for sealing connection and expansion joints in building structure.

### STANDARDS

**TIKISEAL PU25** complies to BS EN ISO 11600-F-25LM, ASTM C 920, and ASTM C 1248 for Non-Staining.

### PROPERTIES

Property	Value
Colour*	White, Black, Grey, Buff
Density	1.35 ± 0.1 g/ml
Skin over time	30 to 60 Minutes
Curing time @ 23 <sup>o</sup> C & 50% RH	24 Hour (2 to 3mm)
Tensile Strength (ASTM D412)	>1.5 MPa
Elongation at Break (ASTM D412)	> 800%
Shore A Hardness (ASTM C661)	20- 30 (After 28 days)
VOC Content	< 3%
Application Temperature	5°C to 40°C
Service Temperature	-30°C to 100°C
Movement Accommodation	30%

\*Standard colours. Specific colour can be tailor made to meet the end user requirement.

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

All surfaces coming in contact with **TIKISEAL PU25** should be clean, dry, and free from loose dirt, dust, laitance, oil, grease or any other contaminants, which may impair the adhesion of **TIKISEAL PU25**.

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 PU25** should be tooled within 30 minutes before skinning occurs to ensure good contact with joint faces. It attains tack free time of 30 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 PU25** sealant, can be calculated by following formula: -

$$L = 600 / (W \times D) \text{ Where,}$$

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 PU25 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 PU25** 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 PU25** is not compatible with PE, PP, Teflon, Neoprene and bituminous surfaces.
- **TIKISEAL PU25** should not be overcoated with alkyd resin paint, as it inhibits the curing of the alkyd paint.

## SUPPLY

**TIKISEAL PU25** 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 PU25** 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.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of TIKISEAL PU25 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: R3, 202203

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