KIngSeal ® PU150

Two component, non-sag, polyurethane sealant.

DESCRIPTION

KigSeal PU150 is an elastomeric two-component polyurethane sealant which cures chemically in a non-sag consistency forming a durable and flexible joint ideal for horizontal and vertical joints.

APPLICATIONS

- Exterior applications.
- Joints in insulation walls.
- Expansion wall joints and precast units.
- Joints under submerged conditions.
- Can be used in horizontal and vertical joints.

ADVANTAGES

- Excellent adhesion to most substrates.
- Wide service temperature range.
- No priming required on most substrates.
- Can be over painted.
- Easy to apply and non-sag sealant.
- Jet fuel resistance.

STANDARDS

KigSeal PU150 complies with ASTM C920 Type M, Grade NS, Class 25 and Federal Specifications TT-S-00227E, Type I, Class A.

METHOD OF USE

Joint Preparation

The joint surface must be clean, dry and free from any contamination. KINGKRETE solvent can be used to clean and degrease the substrate.

Joint Backing

Where applicable, appropriate joint backing rod such as closed cell polyethylene foam should be used to provide the correct joint depth.

Priming

Most substrates only require priming if the joint will be subjected to water immersion after sealant curing.

Mixing

KigSeal PU150 is supplied in two-parts; the two components must be mixed thoroughly for 3 - 5 minutes. To insure proper mixing, a mechanically slow speed powered mixer or drill fitted with suitable paddle should be used. Avoid entrapment of air during mixing.

TECHNICAL PROPERTIES

Colour:	Variety
Specific gravity:	1.50 ± 0.05
Movement accommodation:	± 25%
Application temperature:	5 to 40°C
Service temperature:	−40 to 75°C
Tack-free time:	4 - 8 hr
Final cure:	3 days
Pot life:	2 - 4 hr
Elongation at break:	≥ 800%
Tensile strength:	≥ 1.20 MPa
Modulus @ 100% elongation:	≥ 0.50 MPa
Chemical resistance:	Diluted acids and alkalis
Weather and UV resistance:	Excellent

Application

The recommended application temperature range is 5°C to 35°C. For cold weather application, store the product in a heated area at 20°C for 24 hours prior to use. Install polyethylene joint backing rod to control the sealant depth.

Tooling and finishing should be carried out immediately after the application of the sealant. For optimum performance, the ratio of width to depth of the sealant should be 2:1. Minimum sealant depth should however be 7 mm.

LIMITATIONS

- Allow three days cure before subjecting the sealant to total water immersion.
- Not suitable for swimming pools and high levels of chlorine concentrations.
- White colour tends to yellow slightly when exposed to UV radiation, but will not affect the performance.

CLEANING

Uncured material can be removed using KINGKRETE-solvent. Hardened sealants should be removed mechanically.

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STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected 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 advice consult KingKrete's Technical Services Department.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative.

KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

* Properties listed are based on laboratory-controlled tests.

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