KingSeal ® PU125

One component polyurethane sealant.

DESCRIPTION

KingSeal PU125 is a one component polyurethane sealant that cures by reacting with the air humidity to form a tough and highly elastic low modulus sealant. KingSeal PU125 has a very wide service temperature range. Suitable for vertical and horizontal joints.

APPLICATIONS

- General sealing of construction joints.
- Water tanks.
- Irrigation channels.
- Basement walls.
- Precast concrete elements.
- For concrete, wood, marble, aluminum, steel, ceramic, gypsum bords, etc.
- Expansion joints in traditional façade and construction.

ADVANTAGES

- Very easy and economical to use.
- One component.
- Excellent aging resistance.
- Paintable.
- Excellent acoustic properties.
- Remains elastic at temperatures up to -30ºC.
- Recommended for under water applications.
- Good resistance to microorganisms and a variety of chemicals.
- Suitable for sealing joints in swimming pools.
- Good adhesion to most surfaces without need of priming.

STANDARDS

KingSeal PU125 complies with:

- ISO11600, Type F, Class 25LM.
- ASTM C920.

METHOD OF USE

Surface Preparation

All substrates should be clean, dry, free from dust, oil, grease and any contaminations that could effect the bonding.

If the substrates need to be cleaned, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

TECHNICAL PROPERTIES

Colour:	Various
Density:	Black 1.16 ± 0.05 g/ cm³ Others 1.18 ± 0.05 g/ cm³
Hardness Shore A:	25
Service temperature:	-40 up to 80ºC
Application temperature:	5 up to 35ºC
Cure rate:	3 mm/ day @ 23ºC and 50% HR
Elongation at break: ISO8339	> 500%
Modulus @100%: ISO8339	Ca 44 psi (0.3 MPa)
Resistance to dilute acids and bases:	Average
Modulus at break: ISO37	Ca 1.6 MPa
Compatibility with paints:	Excellent with water based paints
UV resistance:	Good
Thermal resistance:	Passed 100 days @ 80ºC
Water and salt spray resistance:	Excellent

Priming

- No primer is required for most building substrates, such as glass, aluminum, sound and clean concrete, steel, etc.
- For porous substrate, use Flexprime ES200.

Application

The recommended application temperature range is 5ºC to 40ºC. For cold weather application, store the product in a heated area at 20ºC 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 10 mm.

LIMITATIONS

- Not recommended for unsound substrates.
- Although KingSeal PU125 is generally paintable, it is recommended test for the specific paint compatibility.
- Long exposure to UV, will reduce surface gloss, but will not affect sealant performance.

CLEANING

Clean tools and equipment first with paper towels and

KingSeal ® PU125

then wipe by using Acetone, xylene or other suitable solvents.

PACKAGING

KingSeal PU125 is available in 600 cc sausages. 300 ml sausages and 300 ml cartridges are available on request.

CONSUMPTION IN JOINTS

(Linear meter per 600 cc sausage)

Width / Depth	5 mm	10 mm	15 mm	20 mm	25 mm
5 mm	24	12			
10 mm			4	3	2.4
15 mm					1.6

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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