



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

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SKYSEAL PU100

Single Component Polyurethane Construction Joint Sealant

DESCRIPTION

Skyseal PU100 is a gun grade, single component, moisture cure polyurethane based low modulus sealant that cures to form a tough but highly elastic joint sealant with excellent adhesive properties and resistance to aging and weathering.

STANDARDS

- Conform to ASTM 920, ASTM 793-91 and DIN 11431
- Certified according to BS 6920-1:2000 Suitable for use in contact with water for human consumption
- Certified according to ISO 11600/F/25LM and DIN 18540/F

USES

- Sealing expansion and construction joint in both vertical and horizontal applications.
- Joints in precast elements
- External wall and cladding joints.
- Weatherproofing of joints between brickwork, block-work, masonry, wood and concrete or metal frame.
- Bridge and balcony parapets
- Joints in walls, floors, balconies, around window or door frames.
- Joints in water channels and for hydraulic general sealing with contact with water.
- Acoustic joints
- Perimeter joints

ADVANTAGES

- Permanently elastic over a wide range of temperatures
- Forms elastomeric seal accommodating cyclic movements
- Good adhesion on all typical construction materials
- Fuel and chemical resistance
- Good resistance to aging, weathering and immersion in cleansing agents, sea water and lime water
- UV resistant, non-staining and non-yellowing
- Can painted over

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Single
Colour	-	Grey, white and black
Curing mechanism	-	Moisture curing
Density [g/cc]		
Black	-	1.28 +/- 0.02
Grey	-	1.33 +/- 0.02
White	-	1.35 +/- 0.02
Tack-free time [23°C and 50% rh]		120 -140 mins
Elastic modulus at 100% ISO 37 DIN 53504		<0.4 N/mm ²
Tensile strength ISO 37 DIN 53504		>1.5 N/mm ²
Elongation ISO 37 DIN 53504		>700%
Movement accommodation factor		25% of total movement capacity
Application temperature [°C]		from +5 - +40
Temperature resistance [°C]		-40 to +90, for short period up to 120

SURFACE PREPARATION

Surface should be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wipe clean with solvent. Pre-cast panels using form release agents other than polyethylene film must be sandblasted or mechanically abraded and dust free.

Skyseal PU100 has very good adhesion properties without the use of primer on most common building materials. Consequently, the use of primer is not necessary if the area to be sealed is properly prepared and consolidated.

However, varieties of bricks, natural stone, plastics, paints, coatings and other treatments of the surfaces often presents a difficult surface to which to adhere. Due to the number of unpredictable natures of these substrates, a preliminary test is recommended. If necessary, apply a coating of primer on the joint walls (Skyseal primer 101 for porous surfaces)

APPLICATION

Recommended application temperatures: 15°C - 25°C. for easier use or cold weather application we recommend. In order to guarantee free movement of

sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore for correct joint making a closed-cell polyethylene bead (joint backing rod) is to be placed at the proper depth.

For best performance, sealant should be gunned into joint when the joint slot is at mid-point of its designed expansion and contraction. Firmly extrude sealant into the joint making sure that it is in full contact with the sides of joint and with the backing rod at the bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of the sealant to eliminate entrapment of air.

For the successful sealing of joints, it is essential that the following guidelines on joint configuration are observed:

For joints up to 12 mm wide, width to depth ratio = 1:1

For joints over 12 mm wide, width to depth ratio = 2:1

PACK SIZE

600 ml per sausage

20 sausages per box

GENERAL INFORMATION

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

CLEANING

Clean all equipment and tools with water immediately after use.

HEALTH and SAFETY

Gloves, goggles & suitable mask must be worn.

PRECAUTIONS

Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.

DISPOSAL

To be disposed off as per local rules and regulations.

TECHNICAL SERVICE

Philippine SkyBird Industrial Corp. Services are available on request for on-site support to assist in the correct use of its products.