PU 100

Vai a TDS

Sealants

ONE-COMPONENT ELASTIC POLYURETHANE SEALANT RESISTANT TO CHEMICALS AND SUITABLE FOR CLEANROOMS

PRODUCT DESCRIPTION

PU 100 is a highly deformable, high modulus of elasticity, thixotropic sealant particularly resistant to chemicals and to a wide range of aggressive liquids in compliance with EN 14187-4, EN 14187-6 standards and ISO 2812-1. PU 100 sets progressively by reacting with the water vapour in the air or in the pores in the substrate to form elastic, deformable rubber that adheres to the substrate. Once set, it compensates for compressive, tensile and torsional movements in joints while guaranteeing high resistance to punching and surface friction. PU 100 is resistant to dry service temperatures of -30°C to +80°C.

FIELD OF APPLICATION

· Production plants.
· Bottling plants and areas where liquids are handled, including moderately aggressive liquids.
· Storage warehouses.
· Safety tanks for industrial storage tanks.
· Water treatment plants.
· Food industries.
· Pharmaceutical industries.
· Operating theatres.
· Cleanrooms.
· Sealing expansion and contraction joints on vertical and horizontal surfaces that come into accidental or prolonged contact with aggressive chemical liquids, including in those areas subject to the passage of light vehicles.
· Sealing joints in sterile chambers in which an atmosphere with a low level of air pollution particles needs to be created and maintained.

SUITABLE SUBSTRATES

· Iron surface
· Aluminum surface
· Rust free metallic surface
· Bricks
· Ceramic
· Glass
· Tiles

LIMITATIONS

· Do not apply on damp or wet surfaces.
· Do not apply on bituminous surfaces potentially affected by oil bleeding.
· Do not apply if the temperature is lower than +5°C or if the level of humidity is lower than 40%.
· At low temperatures, we recommend warming the sealant by standing it in warm water or rubbing the cartridge vigorously before use so it is easier to extrude and smooth over.

APPLICATION PROCEDURE

a) Preparation of the support

Surfaces to be sealed must be dry, de-gre-

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ased, solid and free of dust, loose parts, oil, grease, wax, old paintwork and rust on metal surfaces. We recommend applying masking tape along the edges of the joint in order to avoid the sealant seeping out of the joint and to get a more attractive finish.

b) Preparing the product
Ready to be used.

c) Applying the product
Insert the cartridge in an extrusion gun, cut off the tip of the cartridge, screw on the extrusion nozzle, trim the nozzle at an angle of 45° and according to the extruded width required and squeeze out the product in a continuous flow into the joint while trying to avoid air entering the joint. Immediately after applying the sealant, smooth over the surface before it hardens with a spatula wetted with soap and water. Remove the masking tape immediately after smoothing over the sealant

COVERAGE / CONSUMPTION
The consumption of PU 100 depends on the application. Typical consumption is between 120 and 150 ml/mL.

PACKAKING
PU 100 is supplied in:
– 600ml cartridge

SHELF LIFE
Original sealed packaging of this product is guaranteed to be of first quality for 18 months if stored in a dry area and temperatures between +5oC and +35oC.

SAFETY INSTRUCTION
PU 100 is not considered hazardous according to current standards and regulations regarding the classification of mixtures. While handling the product, we recommend the use of protective gloves and goggles and to keep the work area well ventilated. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet. PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity	
Consistency:	thixotropic paste
Color:	grey
Density (kg/m^3):	1450
Viscosity (mPa.s):	1,000,000
Dry solids content (%):	100
Application data (at +23°C and 50% R.H.)	
Dilution:	Ready to used
Skin formation time:	60-90 minutes
Polymerization time:	5mm / 24 hours
Service temperature range:	-20°C to +60°C
Application temperature:	+5°C to +35°C
Consumption:	100-120 ml/mL
Elongation:	900%
Tensile strength:	3.7 N/mm^2
Tear strength:	22 kN / m
Hardness Shore A:	40
Module of elasticity at 100% elongation:	0.9
Water resistance:	excellent
Atmospheric agent resistance:	excellent

WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor/...

EMISSION CLASS FOR BUILDING MATERIAL M1

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DC INDUSTRIES

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