

PUR Flex 255

PU Sealant Data Sheet

Description **PUR Flex 255** is a one part, moisture curing, elastic joint sealant based on polyurethane. It is suitable for outdoor application.

Uses **PUR Flex 255** is used as a general purpose sealant for sealing joints in building construction such as movement and construction/isolation joint around windows and doors, facades, claddings, etc. in concrete, brick, wood, metal and PVC sections and structures, etc.

Advantages

- One component, ready to use
- Weather resistance, excellent aging resistance
- Movements capability: 25%
- Very good adhesion to many substrates
- Excellent workability
- High tear resistance
- Can be overpainted (subject to compatibility trials)

USGBC LEED Rating **PUR Flex 255** conforms to the requirements of LEED EQ Credit 4.1:Low-Emitting Materials: Adhesives & Sealant SCAQMD Method 304 VOC Content < 70 g/l

Tests Approval/Standards ISO 11600 (Type F Class 25HM/20LM)

Technical Data

Chemical Base	1-part polyurethane, moisture curing
Density	~ 1.30kg/l (color concrete grey)
Skinning Time	1 – 2 hours (+23°C / 50% r.h.)
Curing Rate	~ 3mm / 24 hours (+23°C / 50% r.h.)
Movement Capability	25%
Joint Dimension	Min width = 10 mm / max. width = 35 mm
Sag-Flow	0 mm; very good
Service Temperature	-40°C to +70°C

Mechanical/Physical Properties

Tear Strength	> 6 N/mm (+23°C / 50% r.h.)	(DIN 53515)
Shore A Hardness	~ 30 after 28 days (+23°C / 50% r.h.)	(DIN 53505)
E-Modulus	0.6N/mm ² at 100% elongation (+23°C / 50% r.h.)	(DIN EN ISO 8340)
Elongation at Break	> 600% (+23°C / 50% r.h.)	(DIN 53504)
Elastic Recovery	85% (+23°C / 50% r.h.)	(DIN EN ISO 7389 B)

System Information

Application Details

Consumption / Joint Design The joint must be designed to suit the movement capability of the sealant. In general, the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~ 2 : 1 must be maintained.

Standard dimensions for concrete elements (as per DIN 18540, table 3)

Joint distance	2 m	2- 3.5 m	3.5- 5 m	5- 6.5 m	6.5- 8 m
Design joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Min. joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	10 mm	12 mm	15 mm	15 mm

Minimum joint width for perimeter joint around windows: 10 mm

All joint must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions.

Approximate consumption:

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	8 mm	10 mm	12 mm	15 mm
Joint length / 600 ml	~ 7.5 m	~ 4.5 m	~ 2.5 m	~ 1.6 m	~ 1.3 m

Backing Material: Use only closed cell, polyethylene foam backing rods

Substrate Quality	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.
Substrate Preparation / Priming	<p>Non porous substrates: E.g. metals, powder coatings, etc. have to be cleaned with a fine abrasive pad by using a clean towel/cloth. After a flash off time of at least 15 min, apply primer by using a brush. Before sealing, allow a flash off time of at least 30 min. (max. 8 hrs).</p> <p>Porous substrates E.g. concrete aerated concrete and cementitious renders, mortars, brick, etc. have to be primed with primer using a brush. Before sealing, allow a flash off time of at least 30 min. (max. 8 hrs).</p> <p>Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.</p> <p>Primers improve long term performance of a sealed joint.</p>
Product Data	
Colour	White & Grey
Packaging	600ml sausages, 20 sausages/ cart
Storage Conditions/ Shelf Life	12 months from the date of production if stored properly in undamaged original sealed packaging, in dry conditions and protected from direct sunlight at temperatures between + 10°C and 25°C.
Application Conditions/ Limitations	
Substrate Temperature	+5°C min. / +35°C max
Ambient Temperature	+5°C min. / +35°C max
Substrate Humidity	Dry
Application Method/ Tools	<p>PUR Flex 255 is supplied ready to use</p> <p>After suitable joint and substrate preparation, insert backing rod to required depth and apply primer if necessary. Insert sausage into sealant gun and firmly extrude PUR Flex 255 into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. PUR Flex 255 must be tooled firmly against joint sides to ensure good adhesion.</p> <p>Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Slick joint with smoothing liquid for a perfect sealant surface.</p>
Cleaning of Tools	Clean all tools and application equipment with sealant remover immediately after use. Hardener and/or cured material can only be mechanically removed.

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Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



LAMACO SYSTEM SDN BHD

Co. No. 1033557-M

407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah. Malaysia

Tel : +60-4-734 5555 Fax : +60-4-772 4444

Http : www.lamaco.com Email : info@lamaco.com



: +60 19 4486611 +60 19 4786611