

# duretán® SL

polyurethanes

Technical Data Sheet

**duretán® SL** is a single component self-leveling polyurethane sealant (that distributes itself on floor joints) that cures at contact with environment, forming a resistant, elastic seal of easy application.

## Technical Information

PROPERTIES	VALUE	TEST METHOD
Chemical base	Polyurethane	
Aspect	Semi-liquid	
Skin over time	Aprox. 24 hours (73.4 °F, 50% HR)	ASTM-C-679-15
Curing ratio	1 mm/day (77 °F, 50% HR)	ASTM-D-1640-14
Density	1.10-1.20 g/ml	ASTM-D-1475-13
VOC	<71.95 g/L	
Application temperature	41 °F to 104 °F	
Service Temperature	-22 °F to 158 °F	
Elongation	Aprox. 700%	ASTM-D-412-16
Tensile Strength	284.47 lbf/in <sup>2</sup>	ASTM-D-412-16
Shore A Hardness	25-35	ASTM- C-661-15
Movement Capability	±25%	ASTM-C-719-14(19)
U.V. Resistance	Good	

Information obtained from laboratory tests.

## Uses

**duretán® SL** has been mainly developed for:

- Sealing horizontal expansion joints in concrete surfaces.
- Sealing floors, highways, sidewalks, slabs, etc.
- Sealing cracks in concrete floors or slabs.

## Advantages

- Comply standard ASTM-C-920 class 25 type S
- Self-leveling.
- Easy application.
- Excellent adhesion.
- Permanent elasticity.
- Excellent weather resistance.
- In most of the substrates primer is not required.
- It does not require mixing, is a single component.
- For seals of floor joints with widths of 5mm and up to 25 mm.

## Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. Porous surfaces shall be cleaned with brush or applying compressed air to remove all loose particles. Place masking on the surfaces to limit the area to be sealed. Apply the sealant from the bottom of the joint allowing that duretán® SL flows and distributes in the form of the joint to be sealed. The excess could be removed as soon as possible with a cloth dampened with isopropyl alcohol.





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## Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Do not apply in wet surfaces or materials in curing process.
- The maximum expansion and contraction shall not exceed 25% of the average width of the joint.
- To form a proper joint of the sealant and prevent the adhesion to a third surface, it is recommended to be used as a support for polyolefin cylindrical extrusion SOF Rod or polyethylene HBR (see technical sheet).
- The ratio between width and depth for joints of 6 mm and up to 10 mm width will be 1 to 1 (width = depth) and in joints larger than 10 mm and up to 25 mm, it will be of 2 to 1 (depth = width/2).

## Maintenance

- It does not require any maintenance, however.
- If the seal is damaged, replace the damaged section, cleaning the surface before applying the new seal.
- The cleaning of the application tools could be done with solvent before the product starts curing. The cured sealant shall be removed mechanically.

## Precautions

- The sealant shall not be applied in completely closed areas, due to the required relative humidity for vulcanization.
- The non-cured product could cause eyes and skin irritation with prolonged contact. In case of discomfort, wash thoroughly with water for 15 minutes and seek medical advice immediately.
- Keep out of the reach of children.

## Limitations

- It is not recommended in surfaces in continuous contact with water.
- In galvanized sheet roofs.

## Presentation

### Packaging and Colors

- Grey



## Coverage

1 liter yields 26.38 meters in a joint of 6 x 6 mm with a waste of 5%.

## Shelf Life

18 months in cool dry warehouse, in its original packaging with temperatures of 21 °C (70 °F) and 50% relative humidity.

## Technical Support

Productos Pennsylvania's Technical Support is at your service, assisting you with:

Guidance in how to apply this or any of our products.

Blueprint reviews.

Joint dimension calculus.

Compatibility and adhesion testing of our sealants with different materials.

### NOTE:

Productos Pennsylvania S.A de C.V. provides technical assistance when required. Please contact our Technical Department regarding use and application of this product. It is the user's responsibility to test the product and its uses before application.

Productos Pennsylvania, S.A. de C.V.

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the caulking expert

