

duretán®-FC

polyurethanes

Technical Data Sheet

duretán®-FC is a polyurethane adhesive sealant of single component, for seals or elastic bonds of high-resistance, excellent adhesion, high mechanical performance and fast curing.

Technical Information

PROPERTIES	VALUE	TEST METHOD
Chemical basis	Polyurethane	
Aspect	Paste	
Skin over time	Aprox. 60 minutes (25 °C y 50% HR)	ASTM C-679-87
Density	1.13 - 1.18 g/ml	ASTM D 792-91
Curing ratio	4 mm / 24 h (23 °C y 50% HR)	ASTM D-1640
Application temperature	41 °F to 104 °F	
Service Temperature	-40 °F to 194 °F	
Elongation	Aprox. 600 %	ASTM D-412
Tensile Strength	202.97 lbf/in ²	ASTM D412-98a
Shore A Hardness	Aprox. 45	ASTM C661-98
Movement Capability	±25%	ASTM-C-719
U.V. Resistance	Good	ASTM-G-154

Information obtained from laboratory tests.

Uses

duretán®-FC has been mainly developed for:

- Joints in metal sheets, aluminum, etc.
- Joints in air conditioning or heating ducts.
- Joints in trucks and trailers bodies.
- Joints in automotive industry and body work industry.

Advantages

- Easy application.
- Elastic.
- Slight smell.
- Do not drip.
- Good resistance to weather.
- Excellent adhesion to most of substrates, without using primer.
- Pintable.
- Fast film formation.

Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil and water. The surfaces shall be cleaned with two cleaning clothes, consisting in passing a (lint free) cleaning clothe impregnated with isopropyl alcohol, and removing immediately all the impurities with a clean and dry cleaning clothe. Place a masking to the exterior perimeter surfaces adjacent to the edge before applying the seal. Introduce the sausage of **duretán®-FC** in the caulking gun for the sausage. Cut with scissors at the edge of the metallic staple in the upper part of the sausage, then place the upper thread along with the pipette, cut at 45° calculating the width of the joint to be sealed. Then continue applying with the gun at 45°, pulling the trigger constantly to perform a uniform cord. When the sealant is placed pass again with a flat spatula in opposite direction to the application, so the product penetrates and is obtained the section required. Once performed this, remove the masking tape immediately. The excess could be removed before curing with a cloth dampened in isopropyl alcohol.





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Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Some substrates may need grinding or cut by manual-mechanical means, to get a smooth surface.
- It is not recommended that the isopropyl alcohol used for cleaning dries alone.
- Use proper safety equipment, like gloves, safety glasses or the specified in your company.

Maintenance

- No maintenance required.
- If the seal suffers any damage replace the damaged section cleaning with chemical or mechanical means before applying new sealant.

Precautions

- 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.
- The sealant shall not be applied in completely close area, (due it is required relative humidity for vulcanization).
- Keep out of the reach of children.
- When exposed outdoors, **duretán®-FC** color white could slightly discolor.
- In case of ingestion, seek medical advice immediately.
- Prevent contact with solvents during the curing.
- Protect from contact with hard water during the first 3 hours after applying.

Limitations

- Do not use **duretán®-FC** on the following surfaces: polyethylene, polypropylene, silicone and teflon.
- Do not apply on frozen or wet surface.
- Do not apply on silicones or in presence of silicones in curing process.

Presentation

Packaging and Colors



- White
- Black
- Gray

Coverage

A sausage yields 15.50 m, in joints of 6 x 6 mm, considering a 7% waste.

Shelf Life

12 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

