



CRC RIGID SEAL
For machined flanges

Ref. : 10769

1. GENERAL DESCRIPTION

Anaerobic adhesive based on methacrylate esters, developed to replace preformed gaskets on machined flanges.

The adhesive has a relative fast initial setting to allow the application of moderate pressure.

2. FEATURES

- Moderate and controlled shear strength.
- Thixotropy and high viscosity provide the adhesive with a good filling capacity.
- Suitable for machined metal flanges.
- Seals immediately under low pressure (< 5 kg/cm²).
- Great resistance to: temperature, corrosion, vibrations, water, gas, oils, hydrocarbons and most chemicals.
- Difficult to dismount with normal tools, even after some years.
- Does not run or drip off.
- Does not migrate after assembly.
- Not suitable for plastic connections.
- Soluble in oil.

3. APPLICATIONS

Adhesive specially recommended for:

- Sealing of metallic, machined flanges, where all the composing parts have a limited difference in thermal expansion coefficient.
- Replaces and eliminates the use of pre-cut gaskets.

4. DIRECTIONS

Best results are obtained on clean, dry and grease free surfaces. For best results, use CRC Industrial degreaser. In general, roughened surfaces give higher bond strengths than polished or ground surfaces.

Apply a bead of CRC Rigid Seal along the complete flange and around the bolt-holes and studs.

Assemble and apply the needed pre-torque when applicable. The assembly can be put immediately under low pressure (< 5 kg/cm²). The functional curing time is obtained after 10 – 20 minutes and full resistance can be expected 6 - 12 hours from application. When assembled, any possible excess adhesive can be removed with a dry cloth or tissue.



Manufactured by :
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5. TYPICAL PRODUCT DATA

• **Properties of uncured material:**

Viscosity (Brookfield RVT, 20 rpm, Sp.3) at 23 °C : 35.000 – 200.000 mPa s
Specific weight : 1,05 g/ml

Flash point : > 100°C

• **Properties of the material when cured (24 hours, at 23°C and 55% of RH)**

Gap filling : 0,50 mm
Shear strength : 8 N/mm²
Temperature range : -50 + 150 °C
Open time : 10 - 20 minutes
Functional curing time : 3 - 6 hours
Final resistance : 6 - 24 hours
Resistance : medium

• **Chemical resistance**

Solvent	Resistance of the bond	
	Short time	Long time
Engine oil (0W30)	Very good	Very good
Petrol without lead	Good	Good
Hydraulic fluid	Good	Good
Coolant emulsion	Excellent	Excellent

6. PACKAGING

Squeeze bottles 50 ml

All statements in this publication are based on service experience and/or laboratory testing. Because of the wide variety of equipment and conditions and the unpredictable human factors involved, we recommend that our products be tested on-the-job prior to use. All information is given in good faith but without warranty neither expressed nor implied.

This Technical Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only valid version of this Technical Data Sheet will be sent to you upon simple request or can be found on our website: www.crcind.com.

We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.

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