



WELD SEALANT PART NO. 50292 (50mL)

DESCRIPTION

DynaGrip® Weld Sealant is a single component anaerobic penetrating adhesive and sealant. Utilizing capillary action it penetrates and seals porosities and cracks. Once confined away from air Weld Sealant cures to a hard, thermoset plastic. Sealant remaining on the surface will not cure and can be easily wiped clean. Benefits include retention of fluids and pressures as well as corrosion and contamination elimination. Temperature resistance is up to 150°C (302°F). Impervious to most solvents. Welds, castings and powder metal parts can be sealed to their rupture pressure.



TYPICAL APPLICATIONS

- Seals and welds porous metal parts.
- Fill voids and imperfections.
- Cure to form a permanent plastic seal that prevents potential leaks.

FEATURES

- No mixing.
- No curing outside of joint.
- Impervious to most solvents.

PHYSICAL PROPERTIES

Monomer (Liquid)

Base Compound.....	Methacrylate Ester
Colour.....	Green
Viscosity (cP @ 25°C/77°F).....	20-55cP
Max Gap Fill.....	0.07mm
Corrosivity.....	None
Toxicity.....	Low
Shelf Life @ 4°C(40°F).....	1 year unopened
Coefficient of Thermal Expansion.....	80×10-6
ASTM D 696, K-1	
Coefficient of Thermal Conductivity.....	0.10
ASTM C 177,W/(m·K)	
Specific Heat, kJ/(kg·K).....	0.30

CHEMICAL RESISTANCE

Chemical	Temp.	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22 0C	95	95
Ethanol	22 0C	95	95
Motor Oil	125 0C	85	50
Petrol	22 0C	90	90
Brake Fluid	22 0C	90	85
Water/Glycol	87 0C	90	90

CURING PROPERTIES

Service Temp. Range: -55⁰C to 150⁰C (-67⁰F to 302⁰F)

Handling Cure Time: 15 - 25 minutes

Functional Cure Time: 4 - 6 hours

Full Cure Time: 24 hours

Breakaway Torque, ISO 10964:

M10 steel nuts and bolts 10 - 20 N.m
88 – 176 lb.in.

Prevail Torque, ISO 10964:

M10 steel nuts and bolts 20 - 30 N.m
176 – 264 lb.in.

Break loose Torque, ISO 10964, Pre-torqued to 5 N.m:

M10 steel nuts and bolts 30 N.m
270 lb.in.

Max. Prevail Torque, ISO 10964, Pre-torqued to 5 N.m:

M10 steel nuts and bolts 40 N.m
350 lb.in

Compressive Shear Strength, ISO 10123:

Steel pins and collars 5.4 N/mm²
780 psi

GENERAL INSTRUCTIONS

1. Ensure parts are clean and dry for best results. Remove dirt, rust, scale, and paint from the weld area to expose the metal surface.
2. Bleed system of all water and pressure to allow the Weld Sealant to wick into the porosities.
3. Heat the area to 50⁰C (120⁰F) or higher. Using heat will expand and activate the metal as well as evaporate any water.
4. Shake the Weld Sealant before opening and apply to the warm welds with a brush. Wet the area thoroughly with the product so that it can wick into all the open areas within the metal and form a new seal.
5. If the porosity is large, or there are several pin-holes in the same area, several applications may be necessary to maximize the amount of Weld Sealant that wicks into the voids to assure a permanent seal.
6. Within 15-25 minutes Weld Sealant should cure with the capability of handling a low pressure. Within an hour it should be able to handle 200psi to 500psi of pressure. If used on a sprinkler system, can be done after that period. Full cure in 24 hours.
7. After an hour wipe away any surface residue.

This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 32°C (90°C), **DynaGrip®** Weld Sealant has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. **DO NOT** stack cartons on their side. **NEVER** stack cartons more than 8 high. **DO NOT** store within 1 metre (4 feet) of roofline of the warehouse or storage building.

GENERAL INFORMATION

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitable use. Since the supplier cannot know all the uses, or the conditions of use to which the products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product when to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

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