

### DESCRIPTION

Deacon 770-L-SS is a thermal reactive liquid sealing compound that is used in high temperature and high-pressure applications. In the presence of heat, Deacon 770-L-SS will form a mechanical (“mechanical type”) seal. Deacon 770-L-SS will not cement threads or flanges together, thus it will not interfere with future repairs of metal-to-metal joints. Deacon 770-L-SS is unaffected by thermal cycling.

### TEMPERATURE RANGE

200°F to 1350°F.

### TEST REPORT

Batch Analysis Report for halogens, sulfur, and low melting point metals provided for Deacon 770-L-SS.

### RECOMMENDED APPLICATIONS

Deacon 770-L-SS is specifically designed for use on stainless steel. Deacon 770-L-SS can be used as a gasket dressing to improve the sealing capability of standard gaskets. Deacon 770-L-SS can also be applied to many types of gaskets (including spiral wound) to reseal them, thereby prolonging their useful life. Deacon 770-L-SS can be used as the only sealant on low tolerance metal-to-metal joints. Deacon 770-L-SS is applied to the sealing surface in a complete, uniform, thin coating. The coating need not be very wide, because the product will flow under compression.

### TYPICAL APPLICATIONS

Stainless Steel Joints, Turbine Split Casing, Any Metal to Metal Joints, Boiler Doors, Leaking Gaskets, Stacks, Flanges, Threaded Fittings, Heat Exchangers, Steam Traps, Gasket Dressing, Sight Glasses, Nuts and Bolts, Pressure Vessels.

### FEATURES

Ease of application. Achieves seal before full cure. Fast, easy repairs. High pressure tolerance, high temperature tolerance & high chemical resistance. Unaffected by thermal cycling. Improves the sealing capability of standard gaskets. Seals flange irregularities (scratches, warpage, cuts, pits).

### SHELF LIFE

Two years in closed containers.

### PACKAGED

Pint, Quart.

### INSTRUCTIONS

1. Surface should be clean and dry (free from oil or foreign material to ensure proper sealing/adhesion)
2. Apply a thin coat to sealing surface (if sealing threads, apply only to the male threads)
3. Close and tighten joint (torqued to the equipment manufacturer’s specifications if sealing a bolted flange)
4. Product will cure in service with heat (**See Note**).

### NOTE

In high pressure applications or when pressure testing at ambient, it is recommended to pre-cure with a heat gun, oven, or to dry fire / blow down at atmospheric (running heat without pressure). Unlike silicone or epoxy products, our thermosetting sealants require heat to cur.

### CURING

The chart below is a general guideline for the time required for a full cure at various temperatures. A seal will be achieved before a full cure is reached.

500°F	4 hrs
600°F	2 hrs
700°F +	<1 hr

\*For applications under 500°F, we recommend using Deacon 10-A Accelerator to reduce the cure time. When using Accelerator, a full cure can be achieved at 200°F in 3 hrs.

**FOR INDUSTRIAL USE BY PROFESSIONALLY  
TRAINED PERSONNEL ONLY.  
CONSULT SDS & TECH SHEET FOR ALL SAFETY,  
TECHNICAL, & WARRANTY INFORMATION BEFORE  
USE. NOT RECOMMENDED FOR USE ON NUCLEAR  
APPLICATIONS**

## **LIMITED WARRANTY**

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