

DEACON

770-L

Description:

Deacon 770-L is a thermal reactive liquid sealing compound that is used in high temperature and high pressure applications. In the presence of heat (200°F+), Deacon 770-L will form a mechanical (“mechanical type”) seal. Deacon 770-L will not cement the flanges together, thus, it will not interfere with future repairs of metal-to-metal joints. Deacon 770-L is unaffected by thermal cycling.

Temperature Range:

200°F to 950°F. Customer feedback report applications in use from 100°F to 1300°F +

Recommended Applications:

Deacon 770-L can be used as gasket dressing to improve the sealing capability of many gaskets. Deacon 770-L can also be applied to many types of gaskets (including spiral wound) to reseal them, thereby prolonging their useful life. Deacon 770-L can be used as the only sealant on low-tolerance metal-to-metal joints.

Deacon 770-L is brushed onto the sealing surface in a complete, uniform, thin coating. Note: Deacon 770-L will flow filling small voids, and surface irregularities creating a seal between the gasket and the flange surface where most leak problems initiate.

Typical Applications:

Turbine Split Casing, Any Metal to Metal Joints, Pump Casing, Leaking Gaskets, Boilers, Threaded Fittings, Doors, Steam Traps, Stacks, Sight Glasses, Flanges, Nuts & Bolts, Heat Exchangers, Pressure Vessels.

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Features: Ease of application. Achieves seal before full cure. Fast, easy repairs. High-pressure tolerance, high temperature tolerance, and high chemical tolerance. Solvents, Oils, Steam, Liquors, Hydrocarbons. Creates a mechanical seal. High wear resistance. Unaffected by thermal cycling. Applications as a gasket dressing. Deacon 770-L improves the sealing capability of many gasket materials.

Packaging: Pint Brush Top, Quart, Gallon

Shelf Life: 1 year in unopened containers

- 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 with brush (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 cure.

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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.

200°F	36 hrs
300°F	12 hrs
400°F	8 hrs
500°F	3 hrs
600°F	2 hrs
700°F +	1 hr or less

* The cure rate of Deacon 770-L can be enhanced by Using Deacon 103-P Accelerator for applications under 600°F. Deacon 103-P can reduce the cure time by more than 75%.

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