

# DEACON

## 770-P

**Description:**

Deacon 770-P is a thermal reactive paste sealing compound that is used in high temperature and high pressure applications. In the presence of heat (200°F+), Deacon 770-P will form a mechanical ("mechanical type") seal. Deacon 770-P will not cement the flanges together, thus, it will not interfere with future repairs of metal-to-metal joints. Deacon 770-P 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-P can be used as gasket dressing to improve the sealing capability of many gaskets. Deacon 770-P can also be applied to many types of gaskets (including spiral wound) to reseal them, thereby prolonging their useful life. Deacon 770-P can be used as the only sealant on low-tolerance metal-to-metal joints.

Deacon 770-P is applied to the sealing surface in a complete, uniform, thin coating. Note: Deacon 770-P 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-P improves the sealing capability of many gasket materials.

**Packaging:** 10.3 fl. oz. Caulking Tube, Pint, 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 or putty knife (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	15 hrs
300°F	8 hrs
400°F	4 hrs
500°F	3 hrs
600°F	2 hrs
700°F +	1 hr or less

\* The cure rate of Deacon 770-P 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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