



Turbo Instruction Sheet

Description:

Turbo is a heat setting, high-solids resin that is used as a sealant or joint dressing on machined, grooved, or threaded joints. Turbo comes in 2 forms; **Turbo-R** is a 100% solids, viscous resin while **Turbo-50** is slightly thinned to aid in application. Turbo is widely used as a turbine sealant along split lines and bonnet joints. Sealant will act as a lubricant to aid in assembly prior to torquing the joint together and heat curing. Turbo is suited for sealing smooth to slightly pitted or steam cut joints of turbines, boilers, heat exchangers, compressors, pumps, blowers, piping, sealing Yankee dryers (injection), or a variety of other high temperature/pressure metal to metal joint applications (If a joint is warped or has steam cuts, **Silver Seal II** or **Temp Tite II** should be used). Turbo expands under heat and cures to a leathery like consistency, and will not crack due to thermal cycling or vibration. Joint disassembly is easy as the sealant does not excessively harden which allows for quick separation. **Turbo-R** or **Turbo-50** are not classified as hazardous materials and are able to be shipped by any means worldwide.

Application Instructions:

Care should be taken not to contact bare skin with sealant. Gloves and a long sleeve garment should be worn when applying this product.

Surface should be 120°F or less as sealant will apply more easily over a cooler surface. Remove debris and oils from the surface to be sealed. Apply Turbo to joint surface by using a brush or caulking it around joint design and bolt holes. Assemble the joint and torque bolts to the recommended specifications. **Cure sealant prior to putting equipment into service.** Turbo cures with heat: 250°F for 4-6 hours or 400°F for 1-2 hours (longer for wider flange surfaces). Service heat from equipment can be used, but minimal pressure should be applied. Cure time can be reduced by utilizing **X-1 Catalyst** which cuts the curing time to 1 hour at 250°F or 20 minutes at 400°F. Uncured product cleans up easily with mineral spirits or isopropyl (rubbing) alcohol. Use a wire wheel or synthetic abrasive pad to clean up cured material.

Turbo Tech Data:

Cured State: Rubbery to Leathery

Specific Gravity: 1.01 (at 72°F)

Max Temperature: to 950°F

Max Pressure: 750 PSI

Viscosity: 500,000 – 800,000 cp (**Turbo-R** @ 72°F)

Chemically Resists (when cured): Gasoline, Perchlorethylene, Methylethyl Ketone, Toluene, Toluol, Acetone, Mineral Spirits, Methanol, Hydrochloric Acid (<170°F)

Joint Compressibility: 0.001 inch min. to 0.005 inch max. gap

Shelf Life: 1 year bulk containers, 6 months caulking cartridges and squeeze tubes.

Refrigerate for best results.

Packaging: ½ pint, pint, quart, gallon cans, 5 gallon bucket, 10.3oz caulking cartridge, and 300ml squeeze tube.

See MSDS information for precautions