QWIK GUIDE: ISO-HT® Installation on Pipe/Equipment

ISO-HT is Dyplast® Products' 2.5 lb/ft^3 polyisocyanurate rigid, closed cell, foam insulation for higher temperature applications up to 350°F (177°C), with intermittent exposure up to 375°F (190°C) - - and as low as -297°F (-183°C). ISO-HT is suitable for constant temperature or heat cycling environments. ISO-HT is certified by independent laboratory to meet demanding Class 1 flame spread and smoke development requirements per ASTM E84.

ISO-HT Polyiso Installation

Proper installation is critical to achieve the superlative benefits inherent in ISO-HT. The installation of ISO-HT is essentially no different than for other rigid foam insulants; yet some installation contractors fail to adhere to the industry standards and/or fail to follow detailed guidance from suppliers, such as Dyplast's more comprehensive ISO-HT Installation Guide. **Note that however well-intentioned any guideline may be, it may not be pertinent for every application, and should not replace the need for a design or specifying engineer to create a specification.**

Polyiso Installation Thumbrules

When an owner, engineer/specifier, or procurement officer qualifies prospective *Installation Contactors* there are a few questions to ask. Consideration may be given to including the top priorities in the contract:

- **Never install insulant to a hot pipe** - - rather at ambient temperatures.
- Pipe should be clean and dry
- Immediately secure insulant segments with filament tape, with an approved tape and interval
- Joints/seams should be butted and offset from adjacent seams/joints
- Outermost joints/seams should be buttered with joint sealant, but should not overflow
- An ASJ or Metal jacket should be selected based on weather protection and/or mechanical abuse protection
- A qualified engineer should determine the frequency and design of expansion joints and vapor stops
- Rust preventive coatings may be appropriate depending on pipe materials and environmental conditions.

Dyplast also recommends the engagement of a certified mechanical Thermal Insulation Inspector who maintains a current National Insulation Association (NIA) or other certified mechanical association certification. During construction and throughout the project such inspectors may inspect and verify the materials are, and the total insulation system has been, installed correctly in accordance with the specifications.