

Texas Internal Pipe Coating (TXIPC) Internal Coated Product **Handling Guidelines**



Care, Handling, & Installation Best Practices

The following guidelines help ensure TXIPC internal pipe coating maintains its integrity and performance throughout the service life. Follow the practices outlined in **API RP 5C1: Recommended Practice for Care and Use of Casing and Tubing** and **NACE SP0291-2017: Care, Handling, and Installation of Internally Plastic-Coated Oilfield Tubular Goods and Accessories**.

01 Transportation

- ✓ **Secure Fastening:** Pipes must be securely fastened to prevent shifting or impacts.
- ✓ **Stacking:** Avoid staggered stacking; use uniform, layered placement.
- ✓ **Separators:** Non-metallic (polymer or wood) to maintain uniform support and prevent uneven stress, deformation, or metal-to-metal contact.
- ✓ **Protective Cap Integrity:** Install thread protectors to protect against corrosion, contamination, and physical damage.
- ✓ **Bearing Strips:** Use wide wooden bearing strips to ensure the pipes do not contact the metallic surfaces of the transport vehicle.
- ✓ **Slings or Baskets:** Both can be used to safely handle incoming internally-coated pipe during transportation, loading, and unloading.

02 Receiving & Inspection

- ✓ **Documentation:** Verify the delivery documents match the pipe type, quantity, and ID coating specifications.
- ✓ **Load Stability:** Inspect for shifting or potentially damaging movement during transit.
- ✓ **Thread Protectors:** Verify that all protective thread caps are intact, securely fitted, and damage free.
- ✓ **Damaged Units:** Any pipes with damage should be clearly labeled, set aside, and reported immediately to TXIPC or the carrier.

03 Unloading & Handling

- ✓ **Lifting Gear:** No specialized lifting or unloading equipment is required for internally-coated tubular goods. Baskets and forklifts are acceptable for unloading and handling operations.
- ✓ **Avoid Metal-to-Metal Contact:** Care should be taken to avoid metal-to-metal contact. Never use metallic instruments that may scratch, puncture, or otherwise damage the internal coating or pipe surface.
- ✓ **No Interior Probing:** Do NOT insert bars or tools inside the pipe for movement.
- ✓ **Control Movement:** Prevent pipes from gathering momentum, striking each other during rolling or stacking.

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04 Storage

- ✓ **End Capping:** Ensure the pipe end caps are firmly installed to prevent direct sunlight, debris, moisture, or insects from entering the pipe and contaminating the internal surface.
- ✓ **Off-the-Ground Support:** Store the first tier of pipe at least 18 inches off the ground on stable, level racks to prevent moisture and dirt contact.
- ✓ **Proper Stacking:** Store in a uniform, layered manner, using adequate dunnage and separators to prevent staggered stacking and uneven stress distribution.
- ✓ **Stacking Height:** Do not stack higher than 10 feet or 5 tiers high to prevent out-of-roundness or collapse.

05 Product Usage

- ✓ **Avoid High Temperatures:** To avoid burns, melting, or degradation of the ID coating, avoid welding or cutting operations.
- ✓ **Handle with Care:** Avoid collision, impact, or excessive force on the pipe's male end during handling or installation.
- ✓ **Use Non-Abrasive Tools:** Do not use tools that could scratch, puncture, or damage the ID coating or pipe end coating.
- ✓ **Installation:** Use plastic or non-metallic guides, centralizers, and other installation tools to protect the internal coating during installation.

06 Product Reuse

Reuse of ID coated pipes is not recommended. If reuse is necessary, please refer to the following guidelines:

- ✓ **Post-Use Cleaning:** Thoroughly clean the pipe immediately after retrieval from the well to remove debris, fluids, or contaminants. Reinstall protective end caps to prevent further contamination.
- ✓ **Inspect Prior to Reinstallation:** Conduct a thorough inspection of the ID coating to verify it is free of damage, cracks, or degradation. Do not reuse pipes with compromised ID coatings.

In connection with the application of coating or sale of coating material, Texas Internal Pipe Coating (TXIPC) makes no warranty, expressed or implied, concerning the materials or services furnished other than that they shall be of the quality and specifications stated in the current price list, and shall be as stated thereon as of the time of completion of the coating or shipment of the materials from TXIPC's coating plant.