



SERIES 425 PIPE ARMOR® ARO

ABRASION-RESISTANT ARMOR FOR RUGGED PIPELINE CONDITIONS

Series 425 Pipe Armor ARO is a high-performance, abrasion-resistant overcoat engineered to protect steel pipelines during the most demanding underground and trenchless installation methods, including horizontal directional drilling. Formulated as a 100% solids, plural-component epoxy, it provides a tough, durable protection that safeguards underlying fusion-bonded epoxy (FBE) coatings from gouging, impact, and mechanical stress throughout pulling, drilling, and placement. For operators in oil, gas, and power markets, Series 425 delivers a reliable layer of defense where pipeline integrity is non-negotiable.

Designed for both efficiency and durability, Series 425 cures rapidly — typically reaching handling and stacking readiness within two to three hours. Its high exothermic sag resistance allows contractors to achieve the required film thickness in a single coat, reducing application time and improving production throughput. This fast cure profile helps streamline schedules, minimize downtime, and keep operations on track without compromising performance.

USES AND APPLICATIONS

- | **Abrasion-Resistant Overcoat for FBE**
- | **Steel pipelines**
- | **Buried pipelines**
- | **Oil and gas transmission pipelines**

FEATURES AND BENEFITS

- | **Abrasion resistant**
- | **Superior adhesion**
- | **Plural-component application**
- | **100 % solids epoxy**
- | **Rapid hardness development**
- | **Pipe movement flexibility**
- | **Resists cathodic disbondment**



Above Series 425 was applied at 40.0 mils DFT on approximately 22,000 lineal feet of pipeline in Schererville, IN. The pipe was then transported to the Kansas City area and pulled through a bore path in a horizontal directional drilling operation.

ENGINEERED FOR STRENGTH, FLEXIBILITY, AND LONG-TERM RELIABILITY

Beyond its abrasion resistance, Series 425 offers exceptional flexibility, rated at 1.14° at 73°F (23°C). This capability allows the coating to withstand bending, flexing, and dynamic stresses common in HDD and other trenchless methods. By combining toughness with adaptability, the system helps maintain coating integrity during installation and ensures long-term protection once pipelines are buried.

Series 425 also delivers advantages in adhesion and corrosion defense, including compatibility with cathodic protection systems to prevent disbondment over time. Its high-build, plural-component application ensures uniform, durable coverage that resists cracking, delamination, and mechanical wear.

These performance attributes make Series 425 Pipe Armor ARO a practical, long-lasting solution for safeguarding critical pipeline assets in harsh subsurface environments.

From rapid cure and exceptional hardness to superior flexibility and abrasion resistance, Series 425 is engineered to protect pipelines during installation through decades of service — providing operators and contractors with long-term confidence in every buried asset.

NEED ASSISTANCE? For help determining the best coating system for your needs, [contact](#) your local Tnemec representative at tnemec.com. They are among the most tenured and knowledgeable experts in the industry and can help you understand the benefits of selecting and applying the ideal coating system on your project.

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