

TAGRAS Oilfield Services Holding

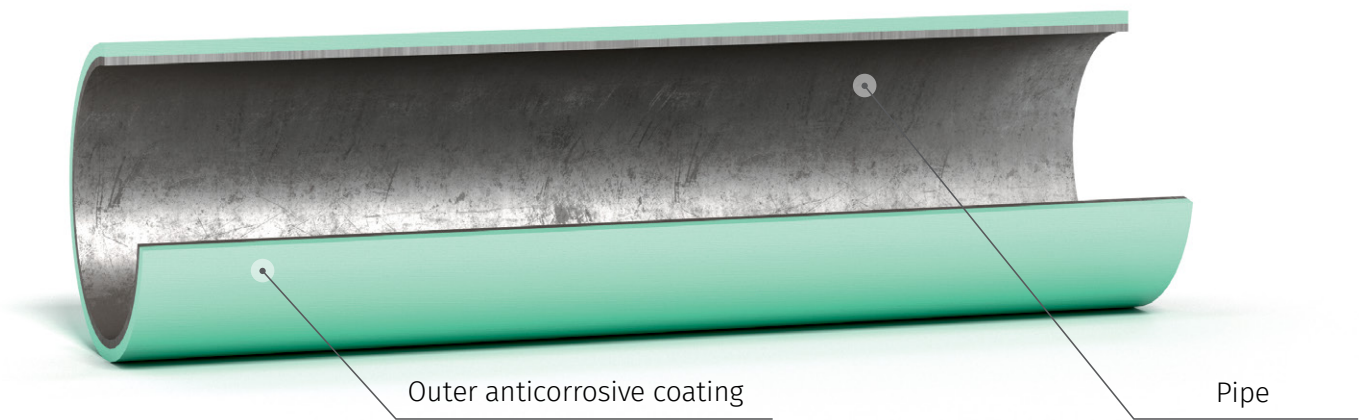


# EXTERNAL CORROSION RESISTANT POLYMER COATING OF STEEL PIPES BASED ON POWDER MATERIALS

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### Purpose

Corrosion resistant polymer coating based on powder materials is intended to protect steel pipelines for various purposes against aggressive corrosive action of the environment.

### Field of application






Pipes with powder coating are used for:

- underground pipelining and in areas where it is not possible to apply external polyethylene insulation due to high pipeline operating temperature (above +176 °F);
- above-ground pipelining;
- as an anticorrosive coating with heat insulation.

### Advantages:

1. The coating is resistant to ultraviolet and thermal aging, and does not crack during its entire service life;
2. Highly resistant to atmospheric and soil corrosion, to cathodic disbandment, and long-term exposure to water;
3. A wide range of colors;
4. Can be used as a part of more complex combined heat-insulating and anticorrosive coatings or an anticorrosive coating with heat insulation;
5. Pipes with polymer powder coating can be assembled in all weather conditions.
6. The coating does not screen cathodic protection currents;
7. Highly resistant to cutting (stripping) compared to the polyethylene precoating.

At the customer's request, the inner surface of the pipe can be lined with a polyethylene pipe with stainless steel pitching (for external laying or for ground-to-air transition); an internal paint-and-lacquer coating can be applied or combined with thermal insulation

	Pipeline diameter, in	4.25 to 32.28		Adhesion strength index by pull-off method, ksi	over 18
	Operating temperature, °F	-76... +302		Depth of coating penetration at a load of 110.2 lb, in	0.0067
	Coating thickness, in	at least 0.014			

The service life of steel pipes with an external coating made from powder materials is more than 20 years