

TRENTON

EON™ 1000-GP

Liquid Epoxy Coating



Trenton EON™ 1000-GP is a 100% solids, two-part epoxy coating specially designed for pipeline applications. It can be spray or brush applied and is compatible with FBE and other pipeline coatings. EON 1000-GP is a 2:1 ratio, high build liquid coating that applies in one coat and cures quickly. The finished coating is extremely durable, with high resistance to disbondment.

End Use:

EON 1000-GP is designed to be used as a coating for girth welds and other pipeline fittings, as well as a patch material for existing pipeline coatings. It can be spray or brush applied as a weld coating or stand-alone coating for new and rehabilitated pipelines. EON 1000-GP can also be used as a primary coating or additional, sacrificial coating for directional drill and road bore pipe applications.

Features:

A strong, durable coating:

- High build, up to 45mils/1150 microns in a single coat
- Excellent adhesion and high abrasion resistance
- 100% solids; no solvents needed
- Suitable for operating temperatures as high as 250°F/121°C (see specifications)
- Meets AWWA C210 requirements

Ease of application:

- Can be applied using cartridges, brush, roller, high-solids spray or plural component systems
- Lower viscosity components facilitate mixing and use
- Wide range of application temperatures (can be applied to substrates as cold as 41°F/5°C)
- Fast curing times to allow for quick handling and backfill

Typical Applications:

- Girth welds and tie-ins
- Directional drilling and boring applications
- Repairs to FBE coated pipe
- Protection of other fittings and fabrications
- Internal pipeline coating

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Application Procedures:

Surface Preparation:

- **For welds and other large applications:** Prepare surfaces with abrasive blast to NACE No. 2/SSPC-SP10, ISO 8501:1, Grade SA 2 ½, near-white metal. Ensure that the surface is clean and free from debris. Surface preparation should establish a 2.5 – 5 mil anchor profile. Coating should be applied within four hours of surface preparation.
- **For holiday repairs:** Remove any grease, oil, other deposits or debris. Abrade the coating surface with 60 - 80 grit sandpaper (power sanding is acceptable) for a minimum of 10 mm on all sides of holiday. An anchor pattern of 1.5 - 4 mil on substrate is optimal.
- **Metal surface must be above 40°F/5°C and a minimum of 5°F/-15°C above the dew point prior to application of EON 1000-GP. The surface can be pre-heated using a propane torch or induction coil for faster cure.**

Product Application:

- **Brush:** Mix two parts component A (base) and one part B (hardener). Add hardener to base and mix at slow speed, using a strong stick or power drill attachment at low speed, until mixture is a consistent color. Apply material to surface and brush, roll, or trowel to a minimum thickness of 25 mils / 635 microns (use a wet film thickness gauge to verify appropriate coating thickness). Both components should be kept at 68°F/20°C minimum for easiest mixing and application. If surface temperature falls below 40°F (5°C), surface should be preheated to achieve a full cure.
- **Repair cartridges:** EON 1000-GP is available in 450 ml and 50 ml dual cartridge packs. These can be utilized with applicators and mixing nozzles for efficient application of the product with minimal clean up required.
- **HSS System:** EON 1000-GP can be spray applied using plural component airless spray units, or with Trenton's High Solids Spray (HSS) spray system. The HSS system utilizes a dual cartridge setup, along with unique application equipment specifically designed to spray apply EON 1000-GP. This system can apply up to 45 mil thicknesses and utilizes either straight or angled mixing nozzles. Cartridges must be heated to 120°F/50°C prior to spraying.
- **Plural Component System Requirements:**
 - A proportioning pump capable of 2:1 mix ratio
 - Recommended tip pressure of approximately 2,200 psi/15.2 MPa
 - Mastic gun with tip size of approximately 625 microns / 25 mils
 - Preheat of part A to 150°F/66°C
 - Preheat of part B to 120°F/49°C



EON 1000-GP can be applied with a brush, roller or applicator pad.



450 ml cartridge, used with the manual application gun and self mixing nozzle, eliminates mixing steps and minimizes product waste.



EON 1000-GP in a 50 ml cartridge used with a self mixing nozzle and 50 ml application gun for quick and effective holiday repairs.



Trenton EON 1000-GP in cartridges and brush grade kits.
Also available in 51-liter and 600-liter spray kits.

Specifications:

| Properties | Value |
|------------------------------|------------------------------------|
| Color | Slate Blue |
| Solids Content | 100% |
| Mix Ratio | 2 parts A to 1 part B by volume |
| Viscosity (cps @ 72°F/22°C) | |
| Brush Grade | Part A: 154,000 Part B: 3,500 |
| Spray Grade | Part A: 90,000 Part B: 9,500 |
| Maximum VOC | 12g/L (mixed) |
| Shelf Life (unopened) | 24 months |
| Maximum Operating Temp. | 250°F (dry environment) |
| Meets AWWA C210 requirements | |

| Properties | Value |
|------------------------------------|-------------------------------|
| Cure Times | |
| Pot life @ 75°F/24°C | 20 min |
| Pot life @ 104°F/40°C | 11 min |
| Dry to Touch Time (@75°F/24°C) | 1hr 45 min |
| Approximate Back Fill Time | 2hr 40 min |
| Recoat Window | 4 hours |
| Cathodic Disbondment: ASTM G-42 | |
| 175°F/80°C, 1.5V – 28 days | 6.6 mmr |
| Abrasion Resistance: ASTM D4060-06 | |
| 5,000 cycles | 0.32g loss |
| Impact Strength: ASTM G14 | 60.9 inch-lbs at 75°F/24°C |
| Hardness: ASTM D-2240-02 | 85 Shore D |
| Holiday Detection (25 mil coating) | 125 volts/mil |

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Storage & Handling:

Minimum of 24-month shelf life when stored in original containers @ 40°F/4°C to 105°F/41°C. For brush or roller application, product should be a minimum of 68°F/20°C for optimal mixing. For HSS spray application, product should be heated to 120°F/50°C minimum. Plural component systems should be heated to 150°F/66°C for part A and 120°F/50°C for part B.

For brush grade kits, prepare only the quantity of coating that can be applied within the pot life. Use of a power drill attachment for mixing at low speed is recommended. Do not mix at a rate which creates foam or bubbles in the coating material.

Packaging:

Trenton EON 1000-GP is available in:

- 50 ml dual component repair cartridges
- 450 ml dual component cartridges
- 1-liter brush grade kits
- 3-liter brush grade kits
- 51-liter spray kit (3 x 17L containers)
- 600-liter spray kit (3 x 200L containers)

An easy-to-apply, versatile solution for field pipeline coatings.

Cleaning:

Clean equipment with MEK or equivalent solvent cleaner.

Health and Safety:

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See material safety data sheet and/or product label for additional safety and handling information.



TRENTON

Corporate Office:
7700 Jackson Road
Ann Arbor, MI 48103 USA
(734) 424-3600
Fax: (734) 426-5882
trenton@trentoncorp.com

Export/Houston Office:
1880 S. Dairy Ashford Rd.
Suite #697
Houston, Texas 77077 USA
(281) 556-1000
Fax: (281) 556-1122
tweber@trentoncorp.com

European Office:
8, rue de Berri
Paris, France 75008
+33 (0) 1 42 99 95 78
Fax: +33 (0) 1 42 99 95 79
europe@trentoncorp.com

www.trentoncorp.com