



NewAge Casting

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2016 Case Study

Asphalt & Epoxy Cast Iron Soil Pipe

Auger Test

NewAge Casting Pipe & Fittings vs. Competitor

All pipe and fittings met ASTM A888 and CISPI-301 standards.
Additionally NewAge Epoxy Coating is per EN 877 standards.



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PURPOSE

Recently, a contractor located in Des Moines, Iowa, engaged an engineer to select a team of highly respected, local professionals to conduct a series of auger tests on two different manufacturer's cast iron pipes and fittings. The purpose was to better understand the benefits of using NewAge's cast iron and epoxy pipe and fittings over that of a domestic competitor's products.

METHOD

To ensure impartiality, an engineer was asked to design the test layout. In addition, the materials being tested, both for New Age and its competitor, were randomly selected from a local supplier's stock.

WITNESSES

Experts from the area were asked to witness the results of the tests. They included: engineers from three different firms, the contractor's project managers and installers, and NewAge's representatives and distributors. All participants, including NewAge's representatives, functioned only as observers. They never interacted with the choice of actual products either during the assembly or disassembly of the tested materials.

TEST PARAMETERS

1. The test products were assembled with 3" cast iron no-hub pipe comprised of 25' of pipe, (1) 1/4 bend, (2) 1/8 bends, and (1) sanitary tee as detailed by the engineer.
2. The tests were conducted on three identical runs installed in parallel:
 - a. NewAge black asphalt coated pipe and fittings
 - b. NewAge epoxy coated pipe and fittings
 - c. Domestic manufacturer of black asphalt coated pipe and fittings
3. The test runs were assembled and disassembled by a local licensed union contractor.

TESTS

1. Each of the three sections were assembled parallel to each other and augured by a local sewer and drain service's technician.
 - a. The technician did not know the purpose of the testing or why the testing was being conducted.
2. The time was carefully recorded to ensure that during each run the auger was in the pipe the same length of time.
 - a. The domestic product took a few seconds longer to auger.
 - b. The technician commented that it was more difficult to push through the domestic pipe due to the roughness of its interior.
3. After the technician ran the auger through the full length of the test pipes and fittings, the test pipes were disassembled and pictures taken to verify the actual results.

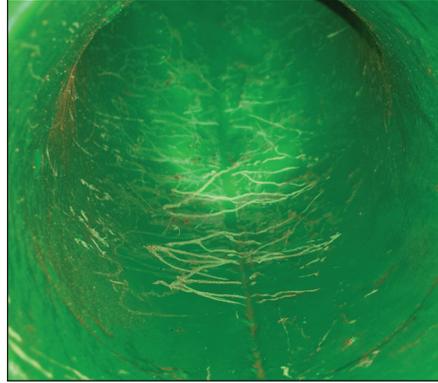
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RESULTS OF AUGER TEST

NewAge
Epoxy Pipe



NewAge
Epoxy 1/4 Bend



NewAge
Asphalt Pipe



NewAge
Asphalt 1/4 Bend



Competitor's
Asphalt Pipe



Competitor's
Asphalt 1/4 Bend



CONCLUSION

As evidenced by these pictures, both brand's asphalt pipe and fittings had similar results. The NewAge Asphalt 1/4 Bend only had one-half teaspoon of shavings versus the full teaspoon of shavings from the competitor's asphalt coated 1/4 Bend.

The NewAge Epoxy 1/4 Bend had absolutely NO shavings after the auger test was completed. The Epoxy coating on both the pipe and fittings shows no damage with their coatings still intact.

The conclusion is really a question that each expert must ask: Given the better results of NewAge's products, what will you select for your future projects? Augering the epoxy coated pipe and fittings did not expose any raw cast iron.