

THIRD PARTY TESTING FOR UNDERCUTTING RESISTANCE

This test is designed to determine the resistance to undercutting on production lined ductile iron pipe for use in sewer service. This is especially relevant for linings in ductile iron pipe due to cut ends and defects from over-homing and damage to pipe during installation. The products tested were applied by applicators certified by each lining manufacturer using the published application specification for each product.

Unedged coupons were cut from lined ductile iron pipe and placed in an apparatus designed to expose the coupons to 120 degree F. water containing 5% NaCl (salt). The panels were subjected to a wet/dry cycle of one hour wet and one hour dry. Pass criteria is one year without blistering or undercutting when evaluated using ASTM-D-714.

Products	Protecto 401	Ceramapure	Series 431
Surface Preparation	Manufacturer's Specification	Manufacturer's Specification	Manufacturer's Specification
Results	Pass – 1 Year No undercutting No blistering	Pass – 1 Year No undercutting No blistering	Fail – 3 Months Extensive Undercutting