

**SIMULATED SEWER ENVIRONMENT ACCELERATED
 TESTING OF PROTECTO 401™ LINING IN
 PRODUCTION RUN DUCTILE IRON PIPE**

TEST	RESULTS
120° F Water Immersion	2.0 years No undercutting at scribe. No effect when rated using ASTM D-714
160° F Distilled Water Immersion	2.0 years No undercutting at scribe. No effect when rated using ASTM D-714
140° F 25% Sodium Hydroxide Immersion	2.0 years No effect when rated using ASTM D-714
20% Sulfuric Acid Immersion	2.0 years No effect when rated using ASTM D-714
ASTM B-117-19 Salt Spray 5% Salt @ 98° F	2.0 years No undercutting at scribe. No other effect when rated using ASTM D-714
EN 598 Section 7.8 (Modified) Abrasion Resistance	.002 inch (.05mm) loss After one million cycles (tested 2021)

Note: All Immersion tests are currently ongoing. Latest results per ASTM D-714-02R17, 2024