



THE PROVEN CERAMIC EPOXY LINING.

LONG-TERM ABOVE GROUND STORAGE OF PROTECTO 401™ CERAMIC EPOXY LINED DUCTILE IRON PIPE AND FITTINGS

Protecto 401™ Ceramic Epoxy is designed to perform in sewer service. Extended above ground storage requires some precautions. Although our experience indicates that the majority of Protecto 401™ Ceramic Epoxy lined pipe and fittings do not have problems with years of above ground storage, the probability of damage from repeated handling (moved from one job to the next) and damage from high temperatures in extreme climates, escalates with long term above ground storage. Protecto 401™ lined ductile iron pipe and fittings must be put in sewer service in good condition in order to perform up to Protecto 401™ Ceramic Epoxy's decades-long quality standard.

Based upon testing and experience in long term above ground storage, it is Induron's opinion that Protecto 401™ Ceramic Epoxy lined ductile iron pipe and fittings stored with exposure to the heat of the sun should be installed within one year of lining. The date of lining is in the set of numbers written on the interior of the pipe or fitting.

However, depending upon ambient conditions, location of storage, and other factors, installation times up to 18 months from the time of lining may be approved if requested in writing and accompanied by inspection within two weeks prior to burial by an approved Protecto 401™ applicator, a representative of the pipe manufacturer, or an authorized Induron representative. Additionally, lined pipes and fittings may be stored for longer periods if they are kept at an Induron-certified storage facility.

If installation within one year is not anticipated, then Induron recommends measures which may be taken for the protection of the Protecto 401™ Ceramic Epoxy lined pipe and fittings for extended storage above ground. The precautions for long-term storage are intended to protect the pipe and/or fittings, which are painted black, from the extreme heat generated in harsh climates due to extended exposure to sunlight. This may be accomplished by moving them under cover or covering all exposed sunlit black surfaces with white latex paint or well-ventilated, light-colored tarps (or shed roof). All Protecto 401™ Ceramic Epoxy lined pipe or fittings should undergo a thorough visual inspection by the installer to determine that no damage is present prior to installation.

These recommendations are designed to ensure that Protecto 401™ Ceramic Epoxy lined ductile iron pipe and fittings are treated as quality products and that proper rotation of stock is a priority. This document supersedes all other documents pertaining to this subject.