

TRENCHLESS PIPE LINING

by Blueprint Plumbing, Inc.



Kenya Solomon

6820 NE 5th Ave, Miami, FL 33138, USA

50-Year, "No-Backups", Transferable Warranty, 4/30/2021

We guarantee that all Cured In Place Pipe Lined and Spin Cast Pipe Lined drains will never backup with normal use (wet wipes okay, toilet paper okay, but not diapers and other large physical objects such as hand towels, kids toys etc.). The lining or epoxy will not separate from the old pipe, it will not crack or deform in any way. The lining is designed to support load-bearing environments such building footers and will prevent all root intrusion and does not require the old host pipe to have any structural integrity in order to support the weight of the soil above it. If needed, the newly lined pipe may also be cleaned through physical means such as hydro-jetting or "snaking".

Our 50-year warranty (transferable upon sale of property) is based off of the 50-year engineered life expectancy as calculated by HTS Materials Testing in Houston TX (see below). In order to maintain the materials approvals by the various national and international regulatory agencies such as ASTM, EPA, NSF, IAPMO etc., our liners and resin are randomly sampled without prior warning, and taken back to HTS Materials Testing in Houston, where the resin is mixed in the right ratio and tested.

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Construction Materials Testing

HTS, Inc. Consultants provides construction materials testing and quality assurance/ quality control, to private industry as well as federal, state and local governmental agencies. HTS' Houston office construction material testing laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) in accordance with International Organization for Standardization (ISO/IEC)

The factors tested are:

- SAMPLE COMPRESSIVE STRENGTH(psi)
- ASTM D 695 TENSILE STRENGTH (psi)
- ASTM D 638 TENSILE ELONGATION
- ASTM D 638 FLEXURAL STRENGTH (psi)
- ASTM D 790 FLEXURAL MODULUS (psi)
- ASTM D 790

The "labor" component of the warranty can be verified upon completion of installation by recorded color video inspection, which is uploaded online and provided to customers.



We use only the Perma-Liner™ and Picote™ materials, which when fully cured using the correct mix ratios, is 100% "styrene"-free and completely resistant to alkaline, acidic and volatile chemicals.

Who Are The Regulatory Agencies That Oversee Cured-In-Place Pipe Lining?

1. **Environmental Protection Agency (EPA)** was established in December 1970 under United States President Richard Nixon. The **EPA** is an agency of the United States federal government whose mission is to protect human and environmental health.
2. **ASTM International** is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.
3. **National sanitation foundation (nsf)** means an independent, not-for-profit organization that offers programs and services to augment and support the work of regulatory officials.
4. **IAPMO** is the International Association of Plumbing and Mechanical Officials.
5. **NASSCO** Pipeline Assessment Certification Program is the North American Standard for pipeline defect identification, assessment and rehabilitation.
6. **NASTT** is the North American Society for Trenchless Technology.



References

We have been installing pipe lining in 300+ homes per year since 2004 and these are available for you to call on our website at: <http://www.trenchless-piping.com/pipe-lining-references/>

Some of our commercial installations include:

