



JOINT SEAL
Waterproofing

ELEVATOR PIT WATERPROOFING PROFESSIONALS

ABOUT US

Since 2013, Joint Seal Waterproofing has been providing elevator pit waterproofing in Toronto, the GTA and the surrounding areas. Our waterproofing applications are designed to withstand the harsh elevator shaft environment, and protect surfaces against oils and chemicals, ensuring long-lasting results.

We specialize in concrete shaft repair, restoration, and crack injection. High-strength concrete adhesives allow us to perform all concrete repairs from inside the shaft, ensuring long-lasting results.

THE LATEST TECH IN MEMBRANE APPLICATIONS

We use top-of-the line equipment and specialized materials, to offer you the best solution in protecting expensive, sensitive elevator equipment.

We make quick and durable applications possible, which is essential in reducing the total cost of pit waterproofing – closing off an elevator shaft during repairs carries a high price tag.





Annual Maintenance

We do pit cleaning as part of regular maintenance.

Repairs and Waterproofing

Shaft cleaning is done in support of repairs.

Sump Pump Performance

Pit cleaning improves the efficiency of sump pumps.

ELEVATOR PIT CLEANING

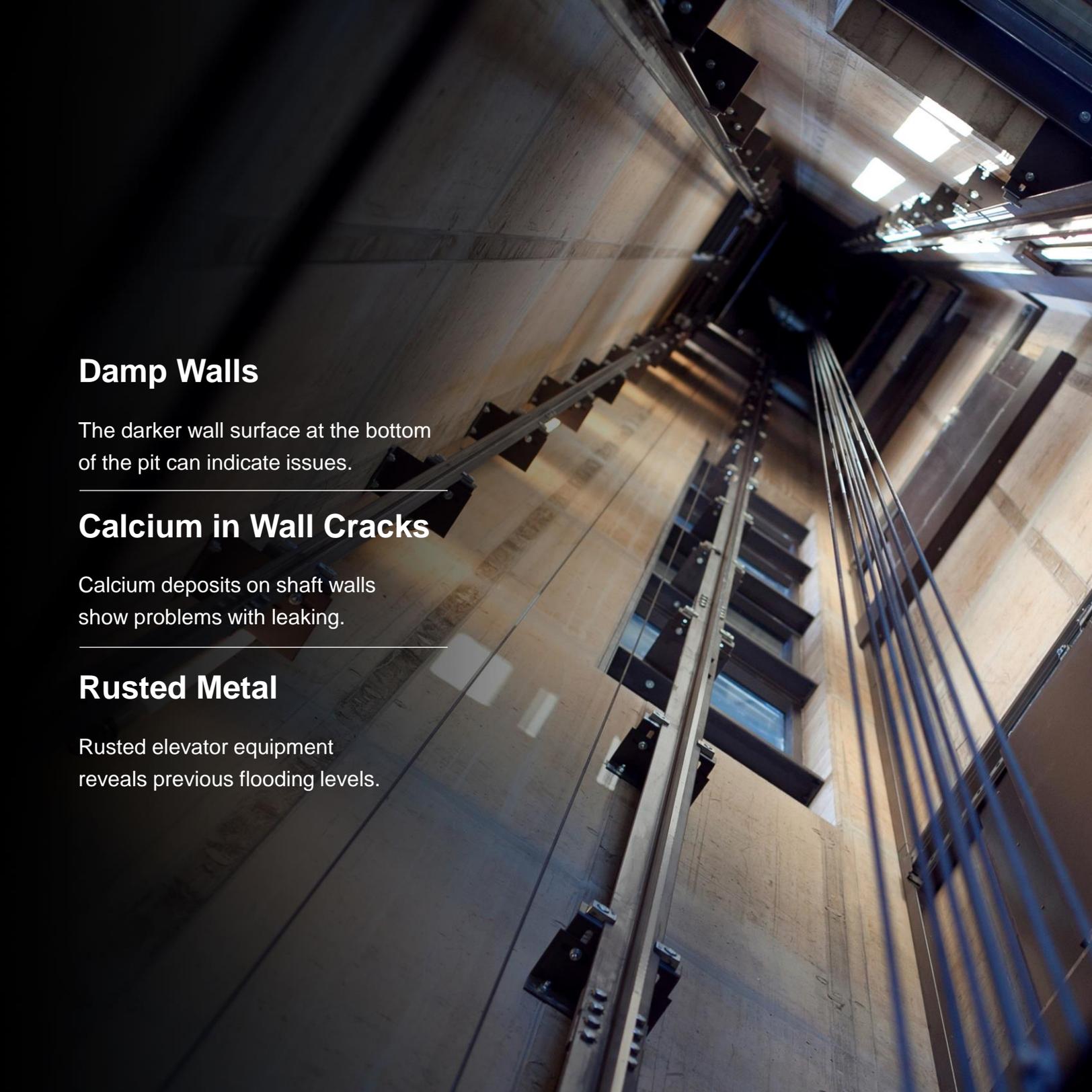
i PART OF MAINTENANCE OR REPAIRS

- ✓ Elevator equipment and sump pumps can work efficiently.
- ✓ Cleaning can reveal the true condition of the shaft.

i HIDDEN ISSUES

- ✓ Concrete deterioration is made evident.
- ✓ Large cracks can be detected.
- ✓ Flooding levels and the extent of damage can be determined.



A low-angle, upward-looking photograph of an elevator shaft. The walls are lined with light-colored wood panels. Metal tracks and cables run vertically through the shaft. At the top, there are bright lights and mechanical components. The perspective creates a strong sense of height and depth.

Damp Walls

The darker wall surface at the bottom of the pit can indicate issues.

Calcium in Wall Cracks

Calcium deposits on shaft walls show problems with leaking.

Rusted Metal

Rusted elevator equipment reveals previous flooding levels.

EARLY WARNING SIGNS

- i** Saturated surfaces and rusted elevator equipment warn about an imminent problem: the elevator shaft can start leaking at any time, leading to elevator equipment damage and eventual shutdown.



DAMP WALLS

The darker wall surface at the bottom of the pit can indicate previous flooding that reached that level and/or wall deterioration due to water saturation.



CALCIUM DEPOSITS

Caused by a significant flow of water seeping from the outside through larger wall cracks. Elevator equipment will be damaged if no repairs are done.



RUSTED METAL

Indicates flood level, possible wall saturation, and damage to elevator equipment. The shaft can start leaking at any time, causing further damage.



Waterproofing Thermographers

Our highly-trained professionals will provide the true diagnosis upon inspection.

Interpreting an Infrared Scan

Infrared imaging and temperature readings indicate the exact level of water saturation.

Cost-Efficient Applications

Repair type will be determined based on crack size and general pit condition.



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DETERMINING BEST SOLUTION

i ENGINEERING SOLUTIONS

Once an infrared scan is done, precise solutions can be engineered to ensure efficient repair and waterproofing.



Basalt coating for floor/wall corners

i OPTIMAL REPAIR METHODS

One of the following repair methods is applied when a pit needs waterproofing:

- Floor/wall corner
- Crack repair on wall and/or floor surfaces
- Piston housing waterproofing
- Block wall waterproofing



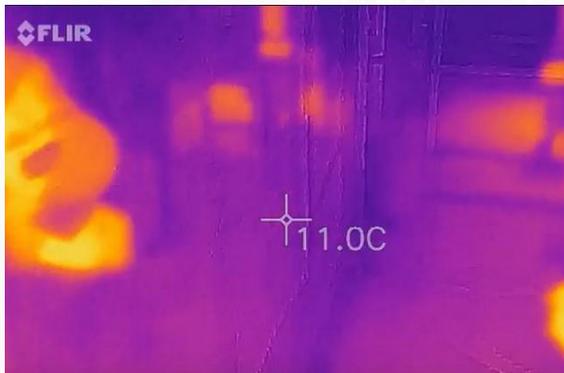
Leaking housing waterproofed

INFRARED SCANNING

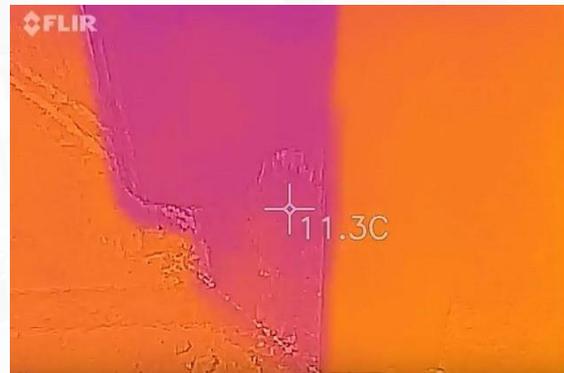
i A PRECISE DIAGNOSIS

An infrared camera makes any leakage evident. The darker the colour and the lower the temperature, the greater the water saturation problem.

Precise solutions can be engineered to ensure efficient repair and waterproofing.



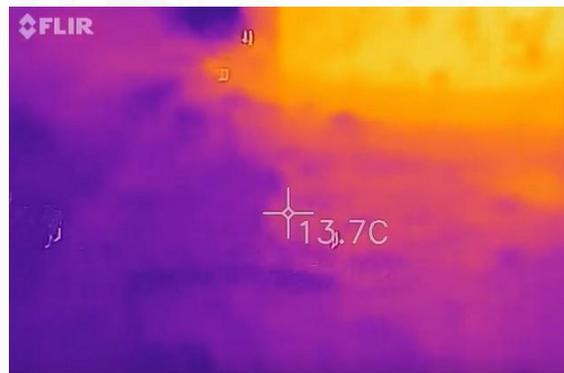
A saturated floor/wall corner



A wall crack



A saturated block wall



Leaking around piston housing



Floor/Wall Corner

Efficiently waterproofed with a triplex application.

Floor/Wall Cracks

Crack repair helps in preventing elevator shaft flooding.

Piston Housing Repair

Waterproofed through liquid rubber injection.

Block Wall Waterproofing

Includes drainage system installation and rubber fiberglass membrane.

COST-EFFICIENT APPLICATIONS

i WATERPROOFING FROM INSIDE

Our specialized materials and methods enable us to do repairs from the negative side.

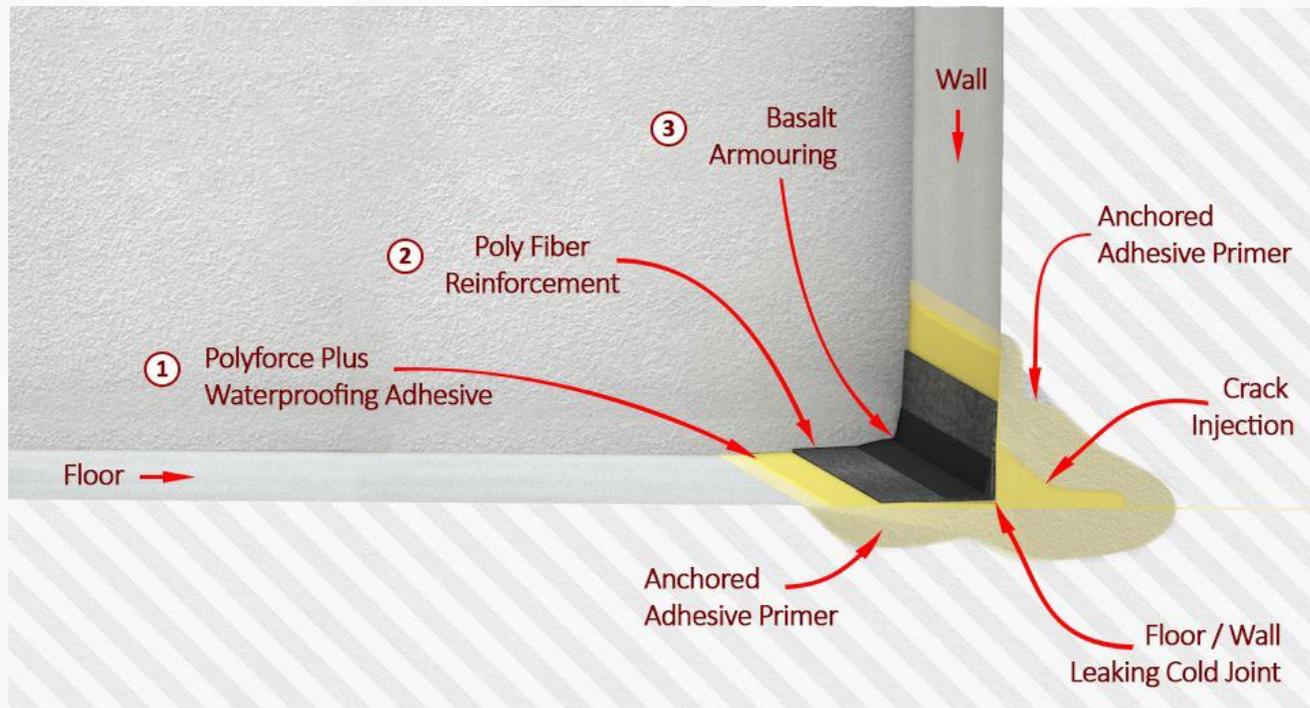
i MONOLITHIC ADHESION

Made possible thanks to Polyforce's 1.8 Mpa adhesion.

Since it is greater than concrete tensile strength of 1.2 Mpa, the patch becomes monolithic.

i BENEFITS

- ✓ Thin patch applications
- ✓ Less concrete demolition
- ✓ Spalling and cracks removed
- ✓ Restored load-carrying capacity

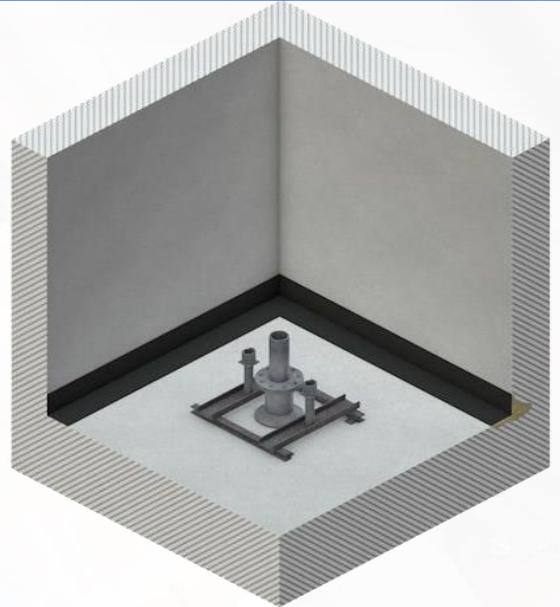


REPAIR METHODS

i FLOOR/WALL CORNER WATERPROOFING

Repair procedure:

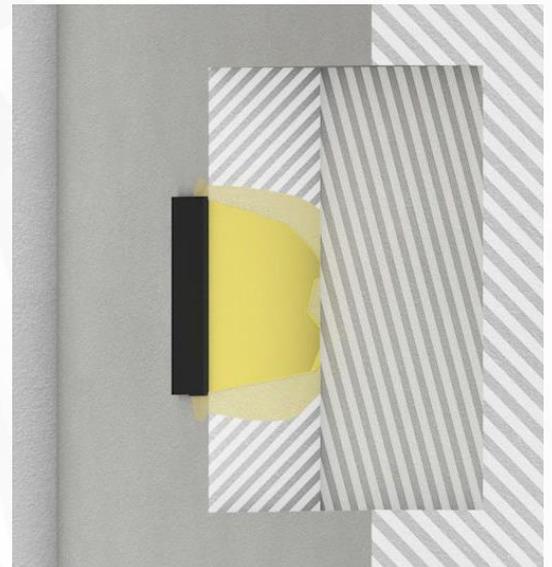
1. Adhesive layer is applied.
2. Patching is done with regular or polymer cement.
3. Fiberglass layer is installed.
4. Basalt coating is applied.



i FLOOR/WALL CRACK REPAIR

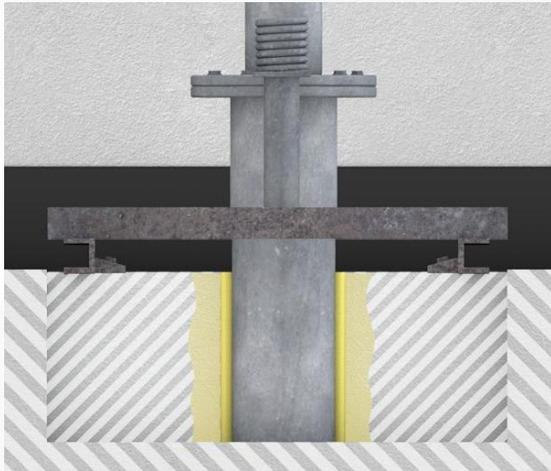
Repair procedure:

1. The crack is routed with a saw.
2. Adhesive is applied.
3. A patch is installed.*
4. Waterproofing primer is applied.



* For patches of less than a ¼ inch thick, polymer cement is used.

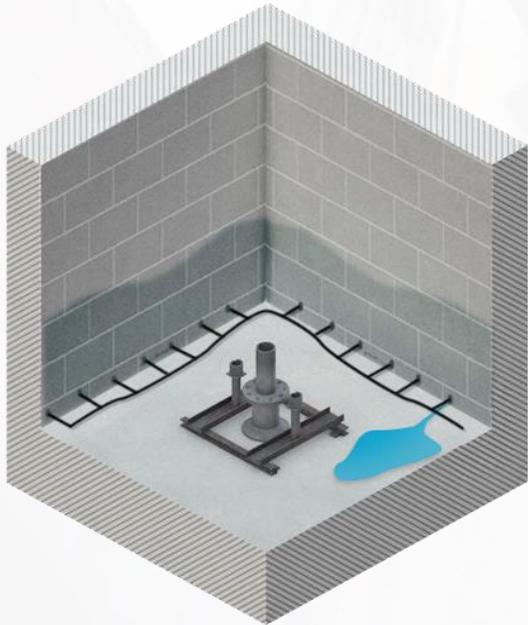
REPAIR METHODS



i PISTON HOUSING WATERPROOFING

Repair procedure:

1. Water accumulated around the piston is removed.
2. The area is cleaned thoroughly.
3. The space is injected with a liquid rubber material.



i BLOCK WALL WATERPROOFING

Repair procedure:

1. A drainage system is installed.
2. Walls are waterproofed and repaired.
3. A rubber / fiberglass membrane is installed.



Cutting-Edge Equipment

The latest technology for polyurea applications.

Highly Resilient Materials

Resistant to hydraulic pressure, oils and other contaminants.

Rated to Perform

Materials tested by the U.S. military, rated for optimal performance.

Application Benefits

Polyurea membrane is applied in minutes and has unparalleled curing time.

CUTTING-EDGE EQUIPMENT

i INSTANT APPLICATION & CURING

- Low elevator down time
- Reduced cost

i INDUSTRIAL SCALE

- Made for large-area applications
- Superior quality

i ELEVATOR EQUIPMENT PROTECTION

- Designed for elevator shaft waterproofing
- Ideal protection for costly, sensitive elevator equipment



HIGHLY-RESILIENT MATERIALS

i CHEMICAL RESISTANCE

- Oils and light acids
- Debris
- Corrosive chemical fallout
- Weather elements
- Other pollution

i MECHANICAL PROPERTIES

- Elasticity
- Abrasion resistance
- Crack-bridging ability
- High tensile strength and adhesion
- Resilience to static hydraulic pressure



i DESIGNED FOR HOSTILE ENVIRONMENTS

- No properties lost after submersion in water.
- Fit for surfaces that undergo significant elongation and deformation.
- Certified to withstand 25 years of harsh underground shaft conditions.

APPLICATION BENEFITS



i JOINTLESS APPLICATION

- ✓ A spray-on application covers difficult geometry.
- ✓ Ideal for floor / wall corner protection.
- ✓ Long-lasting waterproofing.

i FAST APPLICATION & CURING

- ✓ Large-scale commercial applications
- ✓ Continuous monolithic application
- ✓ Cures in seconds

i GREEN TECHNOLOGY

- ✓ Solvent-free
- ✓ No VOCs
- ✓ Fully recyclable
- ✓ 100% solids formula.

i EQUIPMENT PROTECTION

- ✓ Walls repaired and waterproofed
- ✓ Elevator pit flooding prevention



An aerial photograph of a city street grid, showing a road construction site in the center. The image is faded and serves as a background for the contact information.

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