

X-RESTORE ISO / POLY

CHEMICAL SOLUTIONS

CONCRETE REPAIR SYSTEM – COMPONENTS A & B

X-RESTORE ISO / POLY is a rapid-set, high-strength, low-viscosity urethane repair material. This 100 % solids, two-component (1 : 1) system is formulated for rebuilding and repairing damaged control joints, filling voids beneath concrete or tile, and restoring spalled or delaminated concrete surfaces caused by heavy traffic or impact. Its fast-reacting chemistry cures quickly even at low temperatures and provides superior adhesion to properly prepared concrete.



APPLICATIONS

- Ideal for:
- Repairing control and construction joints
 - Rebuilding spalled edges and surface damage
 - Grade correction and surface leveling
 - Filling voids beneath slabs or tile
 - Sealing and bonding structural cracks
 - Repairing traffic areas before coating

KEY ADVANTAGES

- Ready for traffic in 45 minutes
- Performs from –20 °C to 54 °C (–4 °F to 130 °F)
- High mechanical and chemical resistance
- Self-priming and self-leveling on clean concrete
- May be extended with dry aggregate for deep repairs
- Meets USDA / FDA and LEED® IEQ 4.1 requirements
- Ideal for rapid repairs in industrial environments

TECHNICAL DATA

Property	Value
Mix Ratio (by volume)	1 : 1
Mixed Viscosity	250 cps
Shore D Hardness (ASTM D-2240)	67 – 72 D
Elongation (ASTM D-412)	4%
Compressive Strength (ASTM D-695)	6 240 psi (neat) / 5 940 psi (with sand)
Adhesion (ASTM D72324-12)	235 psi
Pot Life (100 g mass)	~ 100 seconds
Application Temperature	–20 °C to 54 °C
Color	Off-white (custom colors available)
Consistency	Low viscosity, self-leveling



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Material Coverage

Coverage depends on repair size and depth.

Typical guide:

Type of damage	Estimated performance
Heavy damage	200 – 400 sq ft/gal
Moderate damage	500 – 700 sq ft/gal
Minor damage	800 – 1 000 sq ft/gal

Examples:

- 1/8" × 1" crack – 154 lf/gal
- 1/4" × 1" crack – 77 lf/gal
- 1/2" × 1" crack – 39 lf/gal

Add 10 – 15 % to account for waste and overfill.

Application Guidelines

- Preparation: Condition both components to approximately 21 °C (70 °F) before use. Surface must be clean, dry, and free of contaminants. Cut around damaged areas to create a vertical edge at least 1/4 in (6 mm) deep. Vacuum using a HEPA-filtered system.

Mixing

- Measure equal volumes of Component A and B.
- Pour both parts into a clean third container and mix vigorously for 20–30 seconds until uniform.
- If color tint is desired, add it to Component B before mixing.

Application

- Pour material into the repair cavity, working in lifts for deep repairs.
- Blend in dry sand or fine gravel for larger voids.
- For cracks, inject from the bottom up.

Finishing

- Allow approximately 45 minutes to set before grinding or reopening to traffic.
- Level the surface with a flexible grinding wheel or suitable polishing tool.

Storage & Safety

- Store between 13 °C and 29 °C (55 °F – 85 °F) in tightly sealed containers.
- Keep away from open flame or high heat.
- Wear gloves, protective clothing, and eye protection.
- Do not ingest. Keep out of reach of children.

First Aid:

- Eyes: Rinse immediately with clean water and seek medical attention.
- Skin: Wash thoroughly with soap and water.
- Ingestion: Do not induce vomiting; drink water and contact a physician.
- Inhalation: Move to fresh air and seek medical advice if symptoms persist.

Limitations

- Do not thin; solvents will prevent proper curing.
- Avoid contact with moisture before full cure.
- Do not apply to concrete less than 28 days old.
- Once cured, product acts as a vapor barrier.

Packaging

22 oz Cartridges | 2 Gallon Kits | 10 Gallon Kits

Environmental Compliance

Complies with USGBC LEED® IEQ Credit 4.1.

Low-odor formulation – zero VOC – 100 % solids.

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Safety Data Sheet (SDS)

Available upon request.

To obtain the latest version of the SDS, please contact:

info@phxindustries.ca

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