PROTECTIVE COATINGS
FOR MINING OPERATIONS

WATERPROOFERS CANADA

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About Us

- Established in 2019, we are a rapidly growing company that provides customized concrete repairs & waterproofing applications to each client, based on their needs.

- We specialize in polyurea-based membrane applications.

- We bring unique solutions to the mining sector, to ensure safety and prolong the useful life of mines and equipment.

PROTECTIVE COATINGS

FOR MINING OPERATIONS

01

MINE SHAFT COATING

Polyurea-based flexible coating that ensures:

- Worker safety.
- Optimal conditions for the mine operations and significant maintenance costs savings.

02

REDUCED ENVIRONMENTAL IMPACT

Polyurea-based coating, with appropriate additives used for tailing pound lining.

- Mitigates pollution by preventing tailings from infiltrating into ground water.

03

MILLING MACHINERY LINING

Polyurea-based, less flexible coating.

Protects against:

- Abrasion
- Cavitation

04

RADIATION CONTROL

Polyurea-based membrane with additives which prevent permeation of radioactive materials.

Applied when a mine is decommissioned.

- Mine opening is backfilled by the operator.
- A concrete slab is placed on the entrances.
- Polyurea membrane is applied.

01

MINE SHAFT COATING

SAFETY & PROTECTION

REPAIR METHOD

To ensure optimal results for durable protection against water and methane infiltration, proper application procedure must be followed:

1. Prep the surface by removing dirt and debris.
2. Inject LeakStop into all surface cracks and voids.
3. Spray structural FireSkin™ Foam (10 pcf) on mine surfaces (25mm).
4. Apply BlastSkinII super-polymer over the structural FireSkin Foam (3mm to 6mm).
5. Apply GlowSkin striping to walls (0.5mm) – additional reflective material (optional).

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02

LOW ENVIRONMENTAL IMPACT

HANDLING TAILINGS

REPAIR METHOD

To ensure minimal environmental impact caused by tailings, before they are deposited, the valley is properly lined:

1. Cover valley surface with geotextilematerial.
2. Primer is applied
3. StormSkin is applied (1.5 to 3mm in thickness).

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03

MILLING MACHINERY LININIG

EXTENDS THE SERVICE LIFE

REPAIR METHOD

To prolong the service life the milling machinery the lining is applied to protect from abrasion and cavitation by the following procedure:

1. The surfaces are thoroughly cleaned to remove any rust.
2. Primer is applied (0.4064mm in thickness).
3. StormSkin is applied (1.5 to 2mm in thickness).

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RADIATION CONTROL

MINE END-LIFE CYCLE

REPAIR METHOD

A basalt additive is mixed with a polyurea-based membrane to ensure that the mine is properly sealed at the end of its life cycle (radiation will not permeate).

1. The mine is backfilled.
2. Concrete pad or geomaterial is placed (1 foot thick).
3. Primer is applied(0.4064mm in thickness).
4. The mixture of StormSkin with a basalt additive is applied (3 to 6 mm in thickness).

POLYUREA-BASED MATERIALS

THEIR ADVANTAGES

NO SURFACE PRE-TREATMENT

Can be applied directly to rock surface, without an extra expense of time and materials.

ELASTICITY

Covers cracks and small cavities caused by rock displacement, preventing water infiltration and lose rocks from falling.

APPLICATION FLEXIBILITY

Can be applied over existing coating to repair any damaged areas, without membrane replacement.

VARIETY OF ADDITIVES

Can be mixed with a variety of other materials – from polyurethane to polyamide, for a range of applications.

HIGHLY RESISTANT

Can withstand:

- abrasion,
- chemicals and solvents.

VARIED APPLICATION METHODS

Foam or spray, roll on / brush on (depending on additives used).

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BLASTSKIN II

MINE SAFETY

SAFETY & PROTECTION

This super-polymer system provides structural support, while shielding surfaces against water / methane infiltration.

APPLICATION ADVANTAGES

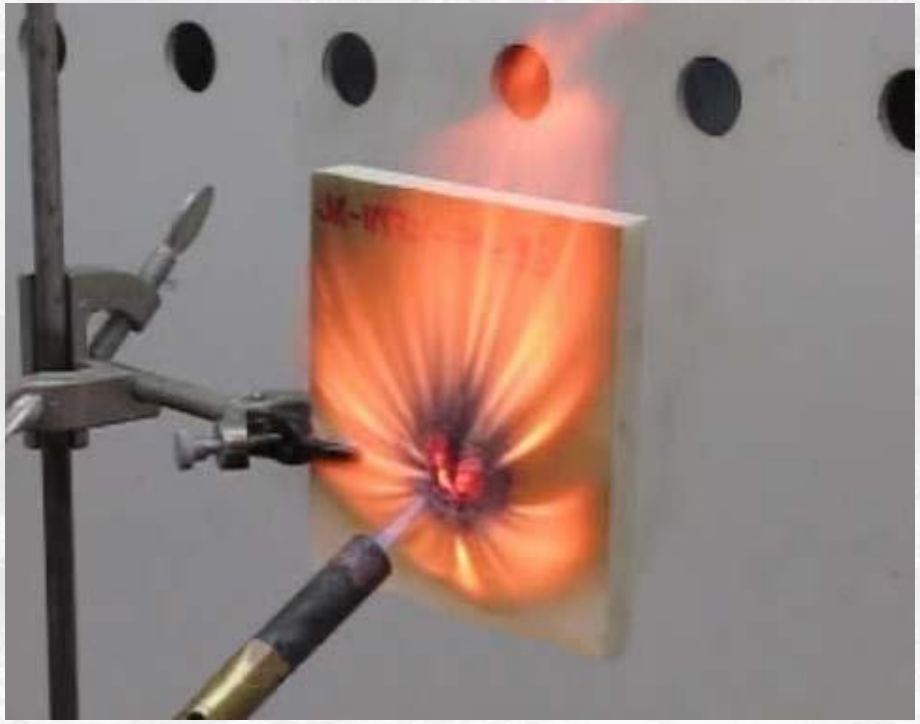
- No limitation to skin thickness.
- Application temperature range: 0°F to 150°F (on dry surface).

SUPERIOR QUALITIES

Elongation	ASTM D412	250%
Abrasion	ASTM D4060	22 mg/1k cycles
Tensile strength	ASTM D412	5411 psi
Impact	ASTM D2794	>350 in. lbs

GREEN FORMULA

A two-component, no-VOC, 100% solids, fire retardant formula.



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STORMSKIN

MINE SAFETY

SAFETY & PROTECTION

Aids in the protection of building infrastructure, pipelines, bridges, etc., by eliminating water vapor transmission.

APPLICATION ADVANTAGES

- No limitation to skin thickness.
- Application temperature range: 0°F to 150°F (on dry surface).

SUPERIOR QUALITIES

Elongation	ASTM D412	300%
Abrasion	ASTM D4060	22 mg/1k cycles
Tensile strength	ASTM D412	2850 psi
Impact	ASTM D2794	>350 in. lbs

GREEN FORMULA

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