

# IRN – LINER™

IRN – Liner: is the industry leader in **epoxy mortar** technology. Designed to be used a **high performance underlayment** to specialized coating systems, as well as a **stand alone** for a more economical, yet high performance hybrid solution. Product is formulated to be extremely chemically resistant, (almost 1,000 times more resistant to chemical environments than Calcium Aluminate based cements). Ideal for **minimizing outgassing** typically associated with coating concrete structures.

### Advantages

- Increases concrete corrosion resistance dramatically
- Maintainable, repairable system
- Easy application by hand, or spray pump (See below for details)
- Excellent solution for damp environments
- Single coat application (Self Priming)
- Interior or exterior applications
- Excellent economical solution
- Excellent adhesion of topcoats (Polyurea and Epoxy)

### Primary Applications:

• Vertical and overhead applications	• High chemical environments
• High microbial and fungal environments	• Self Leveling floor for waterproofing
• Waterproofing system under tile	• Wastewater collection structures
• Wastewater storage structures	• Moisture vapor mitigation

### Product Description:

Material is packaged in premeasured kit yielding 0.41 cubic feet (0.014M<sup>3</sup>)  
 Standard Color: Gray Cement

### Technical Data:

Compressive Strength (ASTM C579)	1 Day	>2,000 Psi (13.7MPa)
	7 Day	>8,000 Psi (55MPa)
	28 Day	> 10,000 psi (69MPa)
Bond strength (concrete)	ASTM D4541	Substrate Failure
Solids by volume	No VOCs	100% Solids
Linear Shrinkage (7 Days)	ASTM C531	< 0.12%



The World's Greatest New Age Construction Materials

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**Packaging:**

Pre-packaged in 0.41 cubic foot kits (0.014M<sup>3</sup>)  
 Each kit is comprised of 3 components (A, B and C)

**Coverage per kit:**

DFT Inches (mm)	Coverage Ft <sup>2</sup> (M <sup>2</sup> )
1/16" (1.6mm)	77.0 Ft <sup>2</sup> (7.2m <sup>2</sup> )
1/8" (3.18mm)	38.5 Ft <sup>2</sup> (3.6m <sup>2</sup> )
1/4" (6.35mm)	19.3 Ft <sup>2</sup> (1.8m <sup>2</sup> )
0.5" (12.7mm)	10.0 Ft <sup>2</sup> (0.9m <sup>2</sup> )

**Preparation:**

Surface must be clean, in sound condition and surface saturated dry. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

*\*Concrete & Masonry:  
 SSPC-SP13/NACE 6,  
 (ICRI No. 310.2R, CSP 3-5)*

**Technical Characteristics\***

Pot life	approx. 60 mins
<b>Curing:</b>	
Ready to Top Coat:	Immediate if spraying
Return to Service:	24 hours
	<i>*at 75°F (24°C)</i>

**Mixing:**

Pour both A and B Component into a container large enough to hold all components (Such as a 5 gallon pail). Mix until liquids are uniformly blended. Material shall only be mixed on slow speed utilizing a mechanical mixer blade. Slowly sift "C" Component into the liquid while continuing to mix. Do not dump all of "C" Component into the liquids at one time. Mix for a minimum of two minutes or until consistent color and texture has been obtained.

For bulk mixing options, please consult with DD Synergy Technical Specialist

**Application:**

Mortar hawk, steel, concrete finishing trowels, broad knives and rubber floats are recommended. Material can be transferred to the surface by utilizing hydraulic spray equipment (i.e. Graco M680 or S340e Mortar Pump). Trowel marks can be smoothed by using a sponge that has been wrung dry. If product begins to thicken while standing, do not add more water. Simply reagitrate to loosen up again. Auger style mixing unit can be utilized to mix multiple units for larger volume application. Please discuss with DD Synergy technical specialist.

*D& D Synergy warrants our products to be free of manufacturing defects in accord with applicable quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product . NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING SALEABLE OR SUITABLE FOR A PARTICULAR PURPOSE.*