



MAGNAROK CABLE SEALING CEMENT

*Expansive Cable Sealing Compound
for Bulkhead Penetrations*

1. Product Description

a. **Basic Use:** Magnarok Cable Sealing Cement provides an extremely dense, high-strength filler that seals all openings around electrical cables and positively prevents the transmission of flames, smoke and/or water through deck or bulkhead penetrations in marine applications. It is a United States Coast Guard "accepted" cable sealing product for through-penetration fire stop designs. Magnarok Cable Sealing Cement is supplied as a dry powder that when mixed with water achieves high early strengths, slight expansion and long term non-shrink properties.

b. Features/Benefits:

- Expands as it hardens to prevent passage of smoke, flames and/or water.
- Quick setting formulation allows for cable installation within 4 hours after initial mixing.
- Easy to use - requires only the addition of water.
- Unaffected by extreme weather exposure.
- Immune to erosion by water even under constant immersion.
- Versatile formulation allows for placement at pourable to stiff consistencies.
- Capable of withstanding 150 feet of hydrostatic pressure.

c. **Typical Applications:** Sealing of electrical and communications cable penetrations through decks and bulkheads in marine applications, sealing of pipe and electrical cable penetrations through floors and decks of all types.

d. **Limitations:** Avoid freezing temperatures during the mixing and application of Magnarok Cable Sealing Cement. It is recommended that the application not be done if temperatures are below 40°F (4°C). After the material achieves final cure (24 hours) there is no low temperature limit to which it can be exposed. The upper temperature exposure limit is 1700°F (926°C).

e. **Composition:** Magnarok Cable Sealing Cement is an expansive hydraulic cement system along with proprietary chemical ingredients.

f. **Color/Appearance:** Similar to concrete.

2. Packaging

Magnarok Cable Sealing Cement is packaged in 50-lb. (22.7 Kg) pails.

3. Estimating/Yield

<i>Size of Container</i>	<i>Yield</i>
<i>50-lb. (22.7 Kg)</i>	<i>0.50 cu. ft. (0.014 cu. m)</i>

4. Technical Data

a. Applicable Standards:

- ASTM C 119, Does not contribute to, or permit, the passage of flame or make smoke at temperatures up to 1700°F (926°C).

b. **Compressive Strength:** ASTM C 109, 2 in. (50 mm) cubes at 72°F (22°C).

<i>Age</i>	<i>Strength</i>
<i>6 hours</i>	<i>2,800 psi (19.3 MPa)</i>
<i>1 day</i>	<i>7,000 psi (48.3 MPa)</i>
<i>3 days</i>	<i>9,000 psi (62.1 MPa)</i>
<i>7 days</i>	<i>9,900 psi (68.3 MPa)</i>
<i>28 days</i>	<i>10,200 psi (70.3 MPa)</i>

c. Set Times: ASTM C 191

Initial Set: 30 minutes.

Final Set: 40 minutes.

d. **Tensile Test:** 1/2 in. (12.7 mm) diameter bolt at 1 hour: bolt fracture.

e. **Expansion:** ASTM C 157; +0.10% at 90 minutes.

5. Directions for Use

a. **Preparation:** Contact surfaces of concrete, steel, iron, or other metals must be clean and sound. All surfaces must be free of oil or grease. Blow off any dirt or dust from contact areas with compressed air.

b. **Bonding:** No bonding agent is required before Magnarok Cable Sealing Cement installation.

c. **Mixing:** Mix only as much Magnarok Cable Sealing Cement as is needed for the job or that can be placed in 15 minutes. Use approximately 3 pints (1.4 liter) of water for each 10 lbs. (4.5 Kg) of Magnarok Cable Sealing Cement. Mix to a smooth consistency that is free of lumps of unmixed Magnarok Cable Sealing Cement.

d. **Placing:** Pack or pour Magnarok Cable Sealing Cement into the blockout or annular space around the cables and/or pipes.

e. **Curing:** Cure with one coat of Seal N Kure or Metcure.

f. **Maintenance:** No maintenance is normally needed. Magnarok Cable Sealing Cement may be sealed or coated with standard concrete products.

6. Availability

Magnarok Cable Sealing Cement is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Magnarok Cable Sealing Cement is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



Metalcrete Industries

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