



DuraCast IP™

TECHNICAL DATA SHEET

Description:

DuraCast IP® is a single component, microsilica enhanced, fiber reinforced, shrinkage compensated, high strength repair mortar, designed specifically for the rehabilitation of underground pipelines and structures.

Applications:

- Relining of brick, block reinforced concrete, corrugated metal pipeline and wastewater structures.
- Catch basins
- Culverts and manholes.

Benefits / Features:

- Single component
- Microsilica enhanced
- High compressive and flexural strengths
- Sulfate resistant
- Spray applied
- Low permeability

Typical Performance Data:

Compressive Strength ASTM C109:

1 Day 6,000 PSI
28 Day 10,000 PSI

Flexural Strength ASTM C348:

28 Day 1,790 PSI

Tensile Strength ASTM C496:

28 Day 720 PSI

Shrinkage ASTM C596:

28 Day 0%

Bond Strength ASTM C882:

28 Day 2,620 PSI

Freeze Thaw Resistance ASTM C666:

300 Cycles No Visible Damage

Density ASTM C138 139 +/- 5

Set Time ASTM C266:

Initial Set : 2 Hours Final Set: 4 Hours

Shelf Life:

6-12 months (dry covered storage).
High humidity will reduce shelf life.

Yield:

One (60) pound bag yields
approximately .54 cubic feet.

Surface Preparation:

Substrate must be structurally sound, free of oil, grease, coatings, rust and loose concrete. Water blast 3500 PSI or sand blast to remove all contaminants.

Do not use when less than 40°F. Apply to a clean damp surface, free of any standing water.

Mixing:

Using rubber gloves, respirator or filter mask and appropriate eye protection. Use approximately 3-4 quarts of potable water per each 60 pound bag of DuraCast IP. First add up to 90% of the potable water into the mixer, then add DuraCast IP and the remaining mix water as required. Mix until a homogeneous consistency is achieved. Water may be chilled to maximize working time.

Application:

Hand application, low pressure spray and rotary spin.

Curing:

Properly cure in strict accordance with ACI recommendations. Apply a curing compound per the moisture retention requirements of ASTM C309 or cure in moist environment for 7 days.

Warranty:

This product is guaranteed and warranted to be of good quality. DuraSeal will, at its sole discretion, replace this product if proven defective when stored, mixed and applied in strict accordance with DuraSeal technical product specification guidelines. DuraSeal offers no guarantee, express or implied for a particular purpose or performance.

Precautions:

When using DuraCast IP wear appropriate respirator, gloves, eye protection and personal protective clothing to reduce contact with skin. Thoroughly wash after use.

60 lbs. (27.21 kg) Nt. Wt.