

### TECHNICAL DATA

**DESCRIPTION:** **Deck Mix LW** is a cement based repair mortar specifically formulated to be combined with ASTM C 330 light weight aggregate. **Deck Mix LW** is ready to use, requiring only jobsite additions of potable water and C 330 lightweight aggregate (10 lbs of C 330 aggregate per 50 lb bag of the **Deck Mix LW**). This combination will produce a lightweight concrete containing special admixtures for added density, tensile and flexural strengths. Air entrainment and an integral corrosion inhibitor give the resulting lightweight concrete advantages of protecting reinforcing steel and adds durability from freeze-thaw cycles.

**USE ON:** With ASTM C 330 lightweight aggregate anywhere the weight of standard portland cement concrete is not practical

- ADVANTAGES:**
- Lightweight
  - Shrinkage compensated
  - Easy mixing and placement
  - Air entrained
  - Excellent finishing characteristics
  - Contains an integral corrosion inhibitor

	3 DAYS	7 DAYS	28 DAYS
<b>Compressive Strength</b> (ASTM C 39 Modified)	1500 psi (10.3 MPa)	2000 psi (13.7 MPa)	4000 psi (27.4 MPa)
<b>Flexural Strength</b> (ASTM C 348)		500 psi (3.4 MPa)	800 psi (5.5 MPa)
<b>Bond Strength</b> (ASTM C 882 Modified)			1500 psi (10.3 MPa)
<b>Unit Weight</b>	125 lb/ft <sup>3</sup> (fresh wet density extended with lightweight aggregate)		

(over)

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**SURFACE PREPARATION:** Remove all dirt, grease, oil, laitance and curing compounds from concrete, mortar and stone by sandblasting or mechanical roughening. On metals, remove grease, oil, rust and mill scale by sandblasting or wire brushing.

**MIXING:** Pour 2.5 quarts of potable water in a mechanical mixer with the C330 lightweight aggregate (10 lb, per 50 lb bag of **Deck Mix LW**). Mix water and aggregate sufficiently to coat the aggregate surface area. With the mixer turning, carefully add **Deck Mix LW** powder slowly to avoid lumps. Mix mortar, water and aggregate until a thorough blend has been achieved. (Do not mix more than 3 minutes). Do not exceed the recommended water addition. Should small quantities be required, be sure to proportion water accordingly. Concrete substrates should be dampened, but free of standing water.

**APPLICATION:** Be sure material is mixed thoroughly to a uniform consistence. Trowel the lightweight concrete in prepared area and allow to stiffen, then produce desired finish by using float or trowel. If steel trowel finish is required, use trowel with water. Protect from wind and heat for the first 24 hours. If no primer is used, dampen masonry surface to which lightweight concrete is applied. In a large project, the use of a good curing compound, meeting ASTM C 309, Type 1 will prevent loss of moisture and produce good, durable concrete.

**LIMITATIONS:** **Deck Mix LW** should be used when ambient temperatures are at 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. For temperatures below 40°F (4°C) consult with the manufacturer for special cold weather placement provisions which include, but are not limited to conditioning of the materials, use of heated mix water and thermal protection. In hot weather use chilled water for mixing. **Deck Mix LW** should not be applied at less than 1" (12.7 mm) thick.

**PACKAGING/YIELD:** **Deck Mix LW** is packaged in 50 lb (22.72 kilo) multi-wall polyethylene lined bags. Each bag yields approximately .58 cubic feet fully extended with 10 lb of C 330 lightweight aggregate.

**CAUTION:** **WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST.** May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.