

*ISOLATEK Type PC is a specially formulated adhesive product for use with ISOLATEK Type 300, ISOLATEK Type 300 AC, ISOLATEK Type 300 HS, ISOLATEK Type 300 ES, ISOLATEK Type 300 SB, ISOLATEK Type 400, ISOLATEK Type 400 AC, ISOLATEK Type 400 ES, ISOLATEK Type 3000, and ISOLATEK Type 3000 ES Spray-Applied Fire Resistive Materials (SFRMs). ISOLATEK Type PC is classified by Underwriters Laboratories (UL) for use in specific Designs within the UL Fire Resistance Directory. ISOLATEK Type PC shall be applied to cover a minimum of 70 percent of corrugated decking, cellular decking, concrete slabs and areas beneath trench headers. The applied thickness of Type PC shall be included in the total thickness required of the ISOLATEK fire protection material.*

**PUMP REQUIREMENTS:**

Minimum 2L4 open throat, auger-fed, rotor stator type pump. If a piston pump is used, it should be set in first gear and throttled back.

**MIXER REQUIREMENTS:**

Paddle or ribbon-type mortar mixer with safety cover and provision for quick dumping of mix directly into the pump hopper. Mixers capable of operating speeds of 35 to 40 RPM, are required.

**WATER REQUIREMENTS:**

One bag of product requires 20.8 to 22.7 litres (5.5 to 6.0 US Gallons) of potable water per bag. **A calibrated water meter is required** to ensure constant water volume per mix.

**MIX TIME:**

Product is mixed by first adding potable water to the mixer and then product. Mix for one (1) to two (2) minutes. **In a multiple bag mix, the mix time begins after the last bag has been added to the mixer.**

**HOSE SET-UP:**

High pressure plaster type hose. Minimize hose length to avoid excessive product waste.

Hose couplings shall be pressure rated victaulic screw-on type that do not restrict product flow. Steel tapered reducers must be used when a reduction in hose is necessary. Brass or aluminum couplings or reducers must not be used.

**NOZZLE REQUIREMENTS:**

The spray nozzle assembly must consist of a min. 25 mm (1 in.) ID aluminum pole with a blow-off type nozzle cap. Nozzle orifice shall be nominal 13 mm (1/2 in.) to 16 mm (5/8 in.) diameter.

**NOZZLE DISTANCE:**

The distance between the nozzle and substrate will vary according to the type of equipment and nozzle used but must be between 457 mm (18 in.) to 762 mm (30 in.).

**NOZZLE AIR PRESSURE:**

Use the amount of air at the nozzle creates an acceptable spray pattern (approx. 3 mm or 1/8 in. continuous beads). Air pressure should make a dull buzzing noise rather than a high pitched sound.

**APPLICATION TEMPERATURE:**

A minimum substrate and ambient temperature of 4°C (40°F) shall be maintained prior to, during and a minimum of 24 hours after the application.

**SURFACE PREPARATION:**

Ensure surfaces are clean and free of dirt, oil, grease, loose mill scale, paints/primers (other than those approved by Isolatek) and any other materials that may impair adhesion.

**SPRAY TECHNIQUE:**

Move nozzle in a steady manner and apply to cover a minimum of 70 percent of the area to be treated. The pattern on the deck shall consist of individual droplets about 3 mm (1/8 in.) in diameter. **ISOLATEK Type 300, ISOLATEK Type 300 AC, ISOLATEK Type 300 HS, ISOLATEK Type 300 ES, ISOLATEK Type 300 SB, ISOLATEK Type 400, ISOLATEK Type 400 AC, ISOLATEK Type 400 ES, ISOLATEK Type 3000, or ISOLATEK Type 3000 ES shall be applied before ISOLATEK Type PC completely dries, or within four hours.**

**COVERAGE:**

One bag of ISOLATEK Type PC covers 93 m<sup>2</sup> (1000 ft<sup>2</sup>) of deck area when applied at a coverage rate of 70% of the area to be treated.

For additional information, please contact the Technical Service Department.

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Isolatek International provides passive fireproofing materials under the CAFCO® trademark throughout the Americas and other markets and under the ISOLATEK® trademark throughout the world.

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