

SHORT FORM APPLICATION GUIDE

ISOLATEK[®] HEAT-SHIELD

This is an abbreviated guide and is not intended as a substitute for the ISOLATEK[®] Application and Installation Manual. All applicators should thoroughly review the Application and Installation Manual prior to applying this product.

REQUIRED NOZZLE:

2-1/2" I.D. (64 mm) Air/Water nozzle, made by Hydra-Cone.
The use of a Hydra-Cone expander sleeve is recommended to provide an even spray pattern. A 10 to 20 cfm (280 to 570 liters/min) **AIR COMPRESSOR** providing 40 psi (2.7 kg/cm²) air pressure at the nozzle is required.

RECOMMENDED EQUIPMENT:

Unisul - All Pneumatic Fireproofing Machines
Contractors Consulting Service - All BOSS Machines

MACHINE SETTINGS:

Unisul - Carding boxes or slide gates should be set fully open.
BOSS - discs should be set at position 12. When feeding material, empty one bag of material into machine hopper at a time. When the hopper is 1/4 full, empty next bag into hopper.

WATER RATIO:

Approximately 0.75:1 water to material ratio, by weight. Water pressure should be a minimum of 65 psi (4.6 kg/cm²), as measured at the nozzle. Refer to the ISOLATEK Application and Installation Manual for methods to determine water flow rate and material feed rate.

WATER BOOSTER PUMP:

IT IS MANDATORY THAT A WATER BOOSTER PUMP WITH A 55 GAL (208 LITER) RESERVOIR TANK BE USED TO INSURE PROPER WATER PRESSURE AND VOLUME.

CAUTION:

Do not apply HEAT-SHIELD to any painted surface.

ADHESIVE:

ISOLATEK HEAT-SHIELD Adhesive is required to be applied as an adhesive prior to the application of HEAT-SHIELD to all approved substrates (except metal lath). When spraying the R-20 System, see section at the end of this guide.

HOSE SET-UP:

TRANSFER HOSE must be smooth interior, rubber or plastic with a 2-1/2" (64 mm) or 3" (76 mm) Inside Diameter (I.D.). It must be reinforced to resist kinking or cracking and must resist static build up. The maximum transfer hose length, not including standpipe, is 250 ft. (76 m).

LIGHTWEIGHT FLEX HOSE (WHIP HOSE) must be rubber or plastic with a 2-1/2" (64 mm) Inside Diameter. It must be lightweight and flexible to allow mobility at the nozzle and must resist static build up. The maximum whip hose length is 25 ft. (8 m).

NOZZLE DISTANCE:

24" to 36" (600 to 900 mm) from the substrate.

POLEGUN:

Maximum polegun length is 12 ft. (3.7 m)

(See reverse side)

SURFACE PREPARATION:

Ensure surfaces are clean and free of dirt, oil, grease, loose mill scale, paints/primers and any other materials that may impair adhesion. For applications to primed steel, contact the Isolatek International Technical Department.

APPLICATION TEMPERATURE:

Maintain a minimum substrate and ambient temperature of 40°F (4°C) prior to, during and a minimum of 24 hours after application.

VENTILATION:

Provide a minimum of 4 complete air exchanges per hour until the material is dry.

WATER OVERSPRAY:

IT IS MANDATORY THAT THE **HEAT-SHIELD** BE OVERSPRAYED WITH WATER BEFORE THE END OF THE WORK DAY.

"R-20" SYSTEM

1) APPLICATION THICKNESS:

When spraying over 3" (76 mm), it is necessary to include HEAT-SHIELD Adhesive in the spray water, producing an "Admix". All surfaces to be sprayed must be pre-wet with HEAT-SHIELD Adhesive (until the adhesive begins to drip) prior to application of HEAT-SHIELD. While the adhesive is still tacky, apply the first 3/4" to 1" (19 to 25 mm) and allow to dry at least 24 hours. Continue to build in 1-1/2" to 2" (38 to 50 mm) layers, until the desired thickness is achieved.

2) ADHESIVE ADMIX:

Required when thicknesses exceed 3" (76 mm). The admix is prepared by thoroughly mixing 6 parts potable water to 1 part HEAT-SHIELD Adhesive. Apply at a ratio of 2.7 U.S. gallons (10.2 liters) **as mixed** per bag of HEAT-SHIELD to cover 50 board feet (4.65 sq m at 25 mm thick).

NOTE:

Only the listed equipment, nozzles and procedures are approved for applying ISOLATEK HEAT-SHIELD. Deviations from any of these recommendations will result in product not meeting claims as published in Isolatek's literature. For complete details, refer to the ISOLATEK Application and Installation Manual. **This guide is not a substitute for the ISOLATEK Application and Installation Manual.**

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