

Monokote® Spatterkote® SK-3 DATA SUBMITTAL

PRODUCT INFORMATION

Description

Monokote® Spatterkote® SK-3 is a mill-mixed portland cement based cementitious spray applied fireproofing accessory product. It is designed to be used with Monokote MK-6® Fireproofing and Retro-Guard® RG Replacement Fireproofing on cellular steel decking with flat plate on the bottom and some roof-ceiling designs. Being cement based, Spatterkote bonds tenaciously to flexible galvanized flat plate steel surfaces used in many of today's most advanced structural steel deck designs. When used in conjunction with Monokote MK-6 and/or Retro-Guard Fireproofing, Spatterkote provides the most reliable fireproofing systems available to the spray fireproofing industry.

Uses

Spatterkote SK-3 shall be applied to all cellular steel floor units with flat plate on the bottom before the application of Monokote MK-6 Fireproofing and/or Retro-Guard Replacement Fireproofing. Spatterkote is also required in some roof-ceiling and concrete floor-ceiling designs and is optional on other steel surfaces. The thickness of Spatterkote is included in the total final fireproofing thickness.

Materials

- a. Material shall be Spatterkote, Underwriters' Laboratories designation "Type SK-3", as manufactured by Grace Construction Products, W. R. Grace & Co. - Conn. or its processing distributors.
- b. Mixing water shall be clean, fresh and suitable for domestic consumption and free from such amounts of minerals or organic substances as would affect the set of the fireproofing.
- c. Retarder material shall be Red Top Plaster Retarder as manufactured by United States Gypsum or approved equal.

Application

Application procedure shall conform to the material manufacturer's application instructions. Spatterkote shall be spray applied at the approximate rate of 1 kg/4.9 m² (1 lb/20 ft²) [nominal 100 m²/21 kg (960 ft²/46 lb) bag]. Spatterkote should be sprayed as its name suggests. After application, the deck areas should look lightly textured and when viewed directly from below, 10-30% of the galvanized surface should remain exposed. A continuous coverage with no deck showing through is NOT acceptable.

Surface Preparation

All surfaces to receive Spatterkote shall be free of oil, grease, paints/primers, loose mill scale, dirt or other foreign substances

which may impair proper adhesion of the fireproofing to the substrate. Spatterkote is not intended for application over alkali sensitive primers.

JOB SET-UP, EQUIPMENT AND SPRAY INSTRUCTIONS

General

Spatterkote can be pumped through the main system directly from the main pump to a smaller pump on the floor or can be applied using a separate mixer/pump set up on the floor. The use of the main system only is considered most cost effective.

For simplest application start with Spatterkote first thing in the morning before application of Monokote has begun. Pumping will begin with Spatterkote and be immediately followed with retarded Monokote (see caution for "sandwich" Monokote-Spatterkote-Monokote alternate). Predetermine the number of bags of Spatterkote needed to spray the entire floor and place near the mixer. UL requires a minimum waiting period of 30 minutes after Spatterkote application before overspraying with Monokote or Retro-Guard. A single floor or several floors may be sprayed with Spatterkote at one time.

Job Set-Up

Set-up detailed below is based on pumping through the main Monokote system to an FM-9 (2L4 Rotor Stator) pump on the floor.

A large plaster pump, TM-30, A-3.75 or other (presently being used for Monokote application) is used to pump Spatterkote through main system to the hopper of a small pump (FM-9 or other 2L4 Rotor Stator Pump) placed on spray floor. FM-9 is fitted with 30.5 m (100 ft) (max) of 31 mm (1¼ in.) plaster hose with 1.8 m (6 ft) pole gun. Pole gun to be 25 or 31 mm by 1.5 m (1 or 1¼ in. by 5 ft) aluminum pipe with hose swivel and nozzle fitted with 10 mm (¾ in.) “tough boy” orifice. The 10 mm (¾ in.) “tough boy” orifice is essential to obtain best pattern and throw to the steel surface, FM-9 to be fitted with front wheel to increase floor mobility. Monokote floor (main system) hose to be fitted with 50 mm (2 in.) KamLoc Brass (quick fit) fitting at the 50 mm x 38 mm (2 in. x 1½ in.) reducer. 50 mm (2 in.) hose to be disconnected and placed near hopper of FM-9. Large pump must be able to be shut off from spray floor, 38 L (10 gal) of water should be brought to the spray floor to allow for cleanout of the floor pump.

Mixing Procedures

Spatterkote is formulated to be mixed with water in a mechanical plaster mixer to form a cohesive, uniform slurry of 700 - 880 kg/m³ (44 - 55 lb/ft³). Water nominal 31.2 - 33.1 L (8¼ - 8¾ gal) per bag should be added to the mixer followed by addition of Spatterkote. Mixing should continue and water adjusted to create a wet, creamy mix with the consistency of medium thick tomato/rice soup. Mixing a wet mix at 35 rpm for a period of 1½ - 3 minutes will produce proper consistency. Mix will be significantly wetter than Monokote.

Pumping

- a. Large plaster pump (TM-30, A3.75 or equal) and hoses should be primed with a small amount of water. Pump should be placed in a low gear and when the hopper is empty the mixer can be dumped and Spatterkote pumping begun. When all the Spatterkote has been mixed and dumped into the pump hopper, the mixer must be dumped and allowed to empty completely. The first 3 bag batch of Monokote MK-6 can then be mixed with the addition of 74 mL (2.5 oz) [one half of a 148 mL (5 oz) dixie cup] of plaster retarder. Retarder must be added or fast setting will occur. When all the Spatterkote has been pumped and the hopper is empty, the retarded Monokote can be dumped and regular Monokote mixing/pumping can continue.
- b. On the spray floor the 50 mm (2 in.) hose (open mouth with quick fit) should be held in the hopper of the FM-9 and the Spatterkote allowed to flow into the hopper. The FM-9 (soap the night before, see section c, which follows) should be placed in third gear. When the hopper of the FM-9 is approximately ½ full, start the pump and immediately begin Spatterkote application. Experience will dictate the proper speed of the large main pump to match the output of the FM-9 floor pump.
- c. When Monokote appears at the mouth of the 50 mm (2 in.) hose, the main pump can be shut off and the 38 mm (1½ in.) Monokote floor hose attached with the quick fit and laid aside until completion of Spatterkote application. When all the Spatterkote has been pumped,

19 L (5 gal) of water can be used to wash down the pump and clean the hoses. When this is complete, an additional 19 L (5 gal) of water pumped through the system will complete the cleanout. When the system is clean, a small amount of liquid dish soap can be “dribbled” over the end of the turning stator tube in hopper. This will lubricate the stator and prevent sticking of the tube and rotor during start up at a later date.

CAUTIONS

1. If Spatterkote is sandwiched between Monokote MK-6 or Retro-Guard (i.e., Monokote pumping-change to Spatterkote-change back to Monokote) the Monokote batches in front of and following Spatterkote **MUST BE RETARDED**. One half of a 148 mL (5 oz) dixie cup of plaster retarder added to the mixing water of a 3 bag batch of Monokote MK-6 or Retro-Guard is sufficient.
2. Whenever changing products the pump hopper should be allowed to completely empty and the sides scraped clean. Where mixing blades do not clean the mixer, a small amount of water should be added to the mixer and dumped into the full pump hopper to help empty the mixer completely.
3. Caution: Spatterkote is cement-based. It will stain aluminum curtain walls, car finishes, and other surfaces which are attacked by alkali (lime).
4. Always review the information on the bag and in the MSDS before using the product. This product is manufactured for professional use only.

For Technical Assistance call us toll free at 866-333-3SBM (3726).



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