

Ex-3

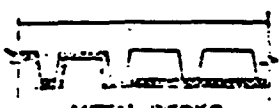
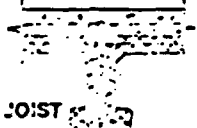
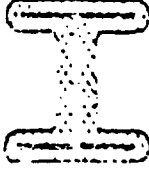
EXHIBIT ADVERTISEMENT

PLAINTIFF'S
EXHIBIT
WRG 275

ZONOLITE® MONO-KOTE® CEMENTITIOUS SPRAY FIREPROOFING FORMULATED WITHOUT ASBESTOS

ZONOLITE MONO-KOTE -4 FIRE RESISTANCE RATINGS

(PARTIAL SUMMARY)

SYSTEM	DESCRIPTION	RATING	UL LISTED	ASTM E-119
 METAL DECKS (Floors)	2 1/4" Concrete Fill Mono-Kote 1/4" Thick following Contour.	3 hrs.	253	2-4274-12
	2 1/4" Concrete Fill Mono-Kote 1/4" Thick following Contour.	2 hrs.	254-2	4374-21
 ROOF DECKS	Two layers 1/2" UL Listed roof insulation on steel deck. Fire- proofing — 1 1/2" vermiculite Type-K following contour.	1 1/2 hrs.	405-194	4374
	One layer 1" UL Listed roof insulation on steel deck. Fire- proofing — 1 1/2" vermiculite Type-K following contour.	1 hr.	4010-1	4374-5
 JOIST	2 1/4" regular concrete fill. Fire- proofing — 1/2" vermiculite Type- K following contour of joist. 1 1/2" vermiculite Type-K following contour of joist.	3 hrs.	253	4374-22
 BEAMS	1/2" Mono-Kote following con- tour of the member.	4 hrs.	404	4374-24
	Composite beam (steel strap on top) 1/4" _____ 4 hrs. 257-2 4374-25 1/2" _____ 3 hrs. 256-3 4374-26			
 COLUMNS	Mono-Kote following contour of the column — 1 1/2" (4374-21) 1 1/4" _____ 1 hr. 254 4374-21-22 1/2" _____ 2 hrs. 255 4374-21-23			
	1 1/2" Columns. 2 1/4" _____ 4 hrs. 254 4374-3 1 1/4" _____ 3 hrs. 255 4374-13 1/2" _____ 2 hrs. 256 4374-13			
	Minimum Column 14WF220— Mono-Kote with 1/4" UL listed approve board on one flange. 1/4" _____ 4 hrs. 254 4374-20 1/2" _____ 3 hrs. 255 4374-13 1" _____ 2 hrs. 256 4374-13			

Zonolite Mono-Kote -4 is the trade name for a fire protection material developed by Construction Products Division, W. R. Grace & Co., without asbestos. The material is sprayed applied to provide high fire resistance at low cost. Only the addition of water at the job site is required. After application to steel or concrete surfaces, it sets hard, providing proper density with high bond, surface hardness and compressive strength.

FIRE RESISTANCE

Mono-Kote has been tested and rated according to ASTM E-119 in the Underwriters' Laboratories, Inc. The material bears the UL label under quality control inspection program.

FIRE HAZARD

Tested and reported in accordance with ASTM E-84 by Underwriters Laboratories, Inc. Flame spread 10, fuel contributed smoke developed 0.

DRY DENSITY

Approximately 22 p.c.f. UL Inc. lists 20 p.c.f. minimum average density.

NOTE

Because of the constantly changing conditions involving sprayed fireproofing, we recommend that you contact your local Zonolite sales office for the current data. Mono-Kote -4 will answer your needs. Since it is formulated without asbestos, and is cementitious it removes the pollution problem. Because it takes a set, like plaster, it assures proper in-place density and hardness not found in sprayed fireproofing.

SPECIFICATION (SHORT FORM)

Sprayed fireproofing material shall be Mono-Kote as manufactured by Zonolite, Construction Products Division, W. R. Grace & Co., or its processing distributor. It shall be applied by machine to the thickness required by local codes and in the areas shown on the drawings. The method of mixing and application shall comply with the manufacturer's instructions.

For full details of procedures to comply with new criteria of ASTM E-119 and Underwriters' Laboratories, Inc. E-119, contact your local Zonolite sales office. In the past, this material has not been tested to meet the new criteria. For more information, contact your local Zonolite sales office.

a) Work Included
Provide all labor, materials and equipment required for complete installation of all sprayed fireproofing and related work as shown on the drawings or specified herein, and in accordance with all applicable requirements of the Contract Documents.

b) Work Not Included

1. Structural steel encased in concrete.
2. Trowelled plaster fireproofing in specified under appropriate section.
3. The cleaning of the surfaces to receive sprayed fireproofing.

c) Codes and Regulations

This specification shall be supplemented by the applicable requirements of the Building Codes and all authorities having jurisdiction. Conflicts and/or discrepancies between Contract Documents, ordinances, etc., noted by the subcontractor shall be immediately brought to the architect's attention.

2. MATERIALS

a) The sprayed fireproofing shall be plaster cementitious setting-type, and shall be Mono-Kote as manufactured by Construction Products Division, W. R. Grace & Co., or its processing distributors.

All manufactured materials shall be mill-mixed and shall be delivered in original, unopened packages bearing the manufacturer's name and the Underwriters' Laboratories, Inc. label. The materials shall be stored off the ground, under cover, and away from damp surfaces. Materials shall be kept dry until ready for use. Materials that have been exposed to water before actual use shall be discarded.

b) Water shall be clean, fresh and free from organic and mineral impurities which would be harmful to the sprayed fireproofing materials.

3. ACCEPTANCE AND PERFORMANCE CRITERIA

a) The sprayed fireproofing shall have been tested by Underwriters' Laboratories, Inc. in accordance with the procedures of ASTM C 119. The structural steel members shall be protected with adequate fireproofing thicknesses and densities to provide the following fire resistance ratings:

Steel columns	Hours
Primary steel members (Girders)	Hours
Secondary steel members (Beams)	Hours

b) The sprayed fireproofing beneath the deck assembly together with adequately proportioned concrete fill at the

hour fire-resistant deck assembly as substantiated by a fire test in accordance with the procedures of ASTM C 119, and performed by Underwriters' Laboratories, Inc.

c) Minimum bond strength between the fireproofing material and the structural steel or galvanized decking shall be P.S.F.

d) The fireproofing material shall not be subject to losses from the finished application by-sifting, flaking or dusting. This performance shall be measured by the results of a test for erosion resistance when subjected to high velocity air flow across the surface of dried samples. The samples thus tested must be representative of machine applied material similar to that which can be expected on the project. The air velocity shall be not less than feet per minute, and the duration of the test shall be at least hours.

e) Material shall not crack or delaminate when the structural element is subjected to downward deflection of 1/120 of the span.

f) Documentation of the above performance shall be submitted with the bid, in order that all parties will fully understand the intention of application performance at that time.

Note to Specifier:

Recommended Quality Criteria:

TESTS

a) The architect will select and the owner will pay an independent testing laboratory, to sample and verify the density of the direct-to-steel fireproofing as applied.

b) Contractor shall control thickness, utilizing a workable depth gauge to meet minimum thickness as required. He shall cooperate with the owner's inspector in furnishing samples for tests.

This recommendation is made in recognition of the variance in product that may be used. Mono-Kote being cementitious has a minimum density in density at which it can be applied. The same may not be true of sprayed fiber types.

4. SAMPLES

Samples of sprayed fireproofing shall be submitted for approval in accordance with the applicable provisions of the Special Conditions. These samples shall be representative of the material as applied in accordance with Acceptance and Performance Criteria as stated below.

5. INSTALLATION

a) Application of sprayed fireproofing

Instructions of the material manufacturer and the fire test report information.

b) Only experienced applicators, approved by the material's manufacturer and Architect shall be allowed to place the materials. Upon request a qualified manufacturer's representative can be present for initial application to guide and assist applicator's personnel.

c) All surfaces to which sprayed fireproofing will be applied shall be thoroughly cleaned of oil, grease, dirt, loose paint, mill scale or any other matter which would impair bond.

d) All clips, hangers, supports, sleeves and other attachments to the fireproofing bases, as covered under other sections of the specifications, are to be placed by others prior to the application of the fireproofing material, where these attachments can be anticipated in advance.

e) Ducts, piping or conduit or other suspended equipment that could interfere with the uniform application of the fireproofing material are to be positioned after the application of the sprayed fireproofing.

f) All patching and repairing of sprayed fireproofing, due to cutting by other trades, shall be performed under this section and paid for by the trade(s) that performed the cutting.

g) The contractor shall cooperate in the coordination and scheduling of the work of this section to avoid delays in the job progress.

6. TEMPERATURE AND VENTILATION

When the prevailing outdoor temperature at the building site is less than 40°F, an interior temperature of 40°F shall be maintained for 24 hours before and 24 hours after application of Mono-Kote.

The plastering contractor shall provide natural ventilation to properly dry the Mono-Kote during and subsequent to its application. In glazed buildings, this shall be accomplished by keeping windows open approximately 2" top and bottom (or side pivoted windows approximately 4") to provide air circulation; and in enclosed areas or buildings lacking openings for natural ventilation, by circulating exterior air and exhausting it to the outside by use of temporary circulators, exhaust fans or the air-conditioning system.

7. CLEAN-UP

After completion of fireproofing work, equipment shall be removed and all wall and floor areas cleaned of debris of sprayed fireproofing materials.

ZONOLITE PRODUCES OTHER PLASTER AND FIREPROOFING PRODUCTS. WRITE FOR THESE DATA SHEETS:

PA-978 Zonolite Vermiculite Plaster Aggregate

PA-958 Zonolite Perlite Plaster Aggregate