MONOKOTE® Patching Compound Product Data Sheet

Fireproofing Patching Material for Repairing Monokote MK-5, MK-6 and MK-10 Products

Product Description

MONOKOTE® Patching Compound is the only UL approved patching material for patching MONOKOTE® MK-5, MK-6 and MK-10 products that when applied as directed, will maintain the original fire rating of the steel member. It has been developed by GCP Applied Technologies to meet specialty, commercial and industrial fireproofing patching requirements. MONOKOTE® Patching Compound is a mill-mixed plaster, (cementitious) fireproofing material that can be hand mixed and trowel applied as required for patching and repairs to surfaces. MONOKOTE® Patch Compound is hand-applied directly to the steel and/or well-bonded material using standard plastering tools and techniques. It has excellent bonding characteristics; it can be applied up to one inch per pass.

MONOKOTE® Patching Compound is classified for use in all UL designs associated with MONOKOTE® MK-5, MK-6 and MK-10 products. References to MONOKOTE® Patching Compound can be found at Database.UL.com by searching for UL File number R4339. Per UL patching guidelines, MONOKOTE® Patching Compound can only be used to patch individual areas of 144 square inches or less. It will provide the same hourly fire resistance of the material being replaced as long as the thickness of the MONOKOTE® Patching Compound is equivalent to or greater than the required thickness of the material being replaced.

Features & Benefits

MONOKOTE® Patching Compound offers the following advantages to applicators:

- UL Classified – MONOKOTE® Patching Compound is the only UL approved patching material for patching MONOKOTE® MK-5, MK-6 and MK-10 products that will maintain the original fire rating of the steel member.
- Convenient – Conveniently packaged in 5 gallon pail. Mix in 1½ gallons of water and begin patching.
- Easy to Mix – Simply add water and mix with a handheld drill mixer.
- Easy to Apply – Apply using a trowel. No spray equipment is needed.
- Excellent Bond Characteristics – Up to one inch thickness per pass.

Uses

MONOKOTE® Patching Compound is ideal for patching damages resulting from typical jobsite installation or renovation activities:

- Duct hangers

- Electrical pipes
- Drywall
- Sprinklers
- Heating
- Ventilation

As IBC requirements for increased SFRM inspections for occupied buildings are implemented, MONOKOTE® Patching Compound will be an ideal product for maintenance repairs.

Delivery & Storage

- All material to be used for fireproofing should be delivered in original unopened pails bearing the name of the manufacturer, the brand and proper Underwriters Laboratories Inc. labels for fire hazard and fire resistance classifications.
- The material should be kept unopened until ready for use.

Surface Preparation

- Surfaces to which fireproofing is applied must be thoroughly cleaned of all foreign material which might impair adhesion. All loose material, including dirt, loose rust, mill scale and any other foreign material, that would impair adhesion of the patching material, must be removed prior to patching. Where damaged material extends to the steel or concrete substrate, removal should be to the steel or concrete substrate.
- Where well-bonded material exists below the damaged material, removal of the damaged material should extend to the well bonded firm material. There is no requirement to remove well-bonded material that lies immediately beneath loosely bonded or poorly adhered material.
- The patching material is keyed into the material surrounding the patch. It should be understood that the integrity of the surrounding material shall not have been impaired. If the surrounding material has been damaged it should be removed prior to patching.
- When applying new material over in place material that has dried, it may be necessary to dampen or pre-wet the in place material sufficiently to prevent premature drying of the newly applied patching material.

Mixing

- MONOKOTE® Patching Compound can be hand mixed or mechanically mixed depending on the amount of material being mixed. When mixing full pail quantities, mechanical hand-held mixers, such as a drill with portable mixing blade, are recommended.
- When mixing full pails of MONOKOTE® Patching Compound, add 1½ gallons of potable water to the pail of MONOKOTE® Patching Compound Mixture. When mixing less than full pails of material, add 1 quart cup of water to 4 quart cups of MONOKOTE® Patching Compound.
- Mix for 1-3 minutes until the mix is a lump-free, cohesive uniform slurry. All material is to be thoroughly wet.
- When properly mixed, MONOKOTE® Patch Compound has a potlife between 2 to 4 hours.

Application

- MONOKOTE® Patching Compound is hand-applied directly to the steel and/or well-bonded material using standard plastering tools and techniques. An individual patched area should not exceed 144 square inches.
- Maximum 1 inch thickness can be applied in a single pass. Anything above 1 inch requires multiple coats. Allow material to become stiff but not completely dry before applying the next coat.
- When patching over in-place material that has dried, immediately before application it may be necessary to pre-wet the in-place material sufficiently to prevent premature drying of the newly applied patching material.
- One pail of MONOKOTE® Patching Compound can cover 7¾ sq. ft. of area at a thickness of one inch.
- MONOKOTE® Patching Compound should not be used if it contains partially set, frozen or caked material.
- MONOKOTE® Patching Compound should not be retempered if the material has started to stiffen or set.

Environment

An air and substrate temperature of 40 °F (4.5 °C) minimum should be maintained for 8 hours prior to application, during application and 24 hours after application of MONOKOTE® Patching Compound.

Provide ventilation to achieve a minimum fresh air exchange rate of 4 times per hour until the material is substantially dry.

Safety

Safety Data Sheets (SDS) for MONOKOTE® Patching Compound are available on our web site or call toll free at 866-333-3SBM.

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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GCP Applied Technologies, 20 Moores Road, Malvern, PA 19355, USA.
GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

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gcpat.com/solutions/products/monokote-fireproofing/monokote-mk-patching-compound