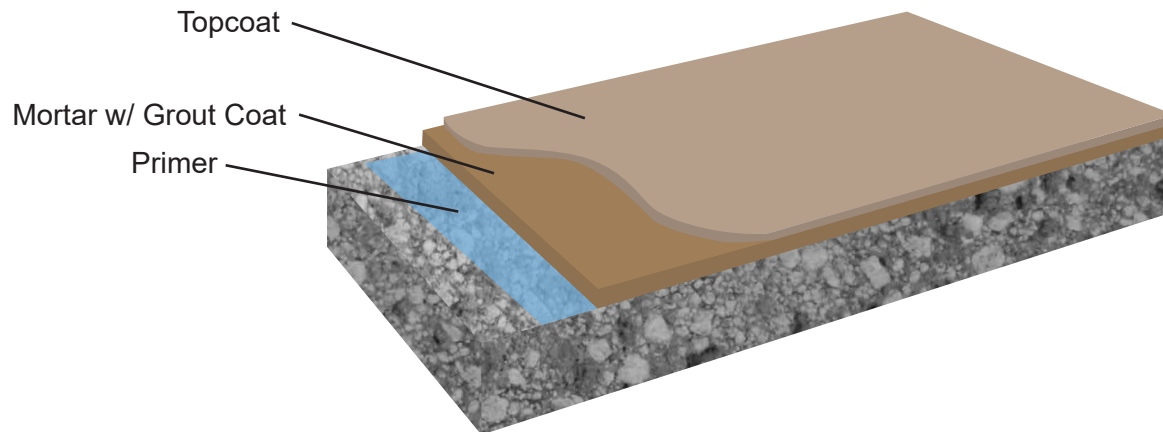


KEY CONDUCTIVE NON-SPARKING MORTAR

Technical Data Sheet



DESCRIPTION

KEY CONDUCTIVE NON-SPARKING MORTAR is a nominal 1/4" thick conductive epoxy surfacing consisting of 100% solids epoxy and graded non-sparking graphite aggregates. It is finished with a conductive epoxy grout for excellent chemical resistance, wear and abrasion resistance. **KEY CONDUCTIVE NON-SPARKING MORTAR** provides a conductive surface testing between 25,000 and 1,000,000 ohms. Ideal for military/aerospace, pharmaceutical plants, hazardous industries (dust or explosion hazards). For use in any areas where the build-up of static electricity is a concern or a spark-proof floor is required. **KEY CONDUCTIVE NON-SPARKING MORTAR** is available with **KEY CONDUCTIVE NOVOLAC EPOXY** topcoat.

KEY ADVANTAGES

- High wear, impact, abrasion resistance
- Low odor during application and cure, can be applied in occupied buildings
- Low maintenance, sanitary, integral cove base
- Low VOC (EPA Method 24, SCAQMD Compliant)
- Chemical resistant finish, novolac epoxy available for added chemical resistance
- Conductive, spark-proof surface and spark-proof aggregate

TYPICAL USES

- Military and aerospace
- Rocket fuel manufacturing
- Munitions plants
- Solvent handling and storage areas
- Potential dust explosion areas
- Numerous other applications requiring spark-proof atmospheres
- Numerous other uses-Consult with Key Resin

PHYSICAL PROPERTIES

| Test Name | Method | Value |
|--------------------------------|--------------------------------------|--|
| Color | | Key Standard Colors and Custom Colors May vary slightly due to conductive fillers |
| VOC (Volatile Organic Content) | EPA Method 24 | Refer to Individual Product Component Data Sheet |
| Bond Strength to Concrete | ASTM D-4541 | 350 psi Concrete Failure |
| Compressive Strength | ASTM C-579 | 10,000 psi |
| Flexural Strength | ASTM C-580 | 3,000 psi |
| Hardness, Shore D | ASTM D-2240 | 80-84 |
| Tensile Strength | ASTM D-412 | 2,400 psi |
| Flammability | ASTM D-635 | Self Extinguishing |
| Abrasion Resistance | ASTM D-4060, CS17 Wheel, 1000 cycles | .035 gm weight loss |
| Conductivity Resistance | ASTM F-150 | 25,000-1,000,000 ohms |
| Static Charge Decay | MIL-B-81705B | Dissipates a 5,000 volt charge to zero in <0.1 seconds |

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APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **KEY RESIN COMPANY** flooring system installation. Refer to Key Resin Company Technical Bulletin #1 for specific preparation guidelines and required moisture testing. For specific installation details consult Key Resin Company's Installation Instructions Guideline.

MAINTENANCE

After completing the application of **KEY CONDUCTIVE NON-SPARKING MORTAR**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. **KEY CONDUCTIVE NON-SPARKING MORTAR** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing using the appropriate pad is recommended for all surfaces having a non-skid texture. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat. Refer to Technical Bulletins #3 and #3-A for additional recommendations.

SYSTEM OPTIONS

- High chemical resistant conductive novolac epoxy topcoat

TECHNICAL SERVICE

KEY RESIN COMPANY provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY RESIN SALES/TECHNICAL REPRESENTATIVES** are available to assist. Telephone **888.943.4532** or visit **www.keyresin.com**.

AVAILABILITY

Key Resin Flooring Systems are available throughout the United States, Canada, and a number of other countries. Contact the **KEY RESIN SALES REPRESENTATIVE** in your area for details.

WARRANTY

Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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