gcp applied technologies

MONOKOTE® SPRAY-APPLIED FIREPROOFING
Product selection guide

For over 50 years, GCP Applied Technologies has developed a series of Monokote® technologies to meet the ever-changing needs of the spray-applied fire protection market.

The selection chart and brief descriptions below will help the architect/engineer or building owner make a preliminary selection of the Monokote fireproofing product with those characteristics most suited to the anticipated end use. Full product literature is available for each of these products from your local GCP Applied Technologies sales office or on the web at www.gcpat.com.

Commercial Buildings*							
Product	**Density**	**<75Ft**	**>75Ft & <420 Ft**	**>420 Ft**	**Parking Garages**	**Swimming Pool Areas**	**Exterior Exposure**
Monokote® MK-6/HY, MK-6s, MK-6 GF[(a)]	15	•					
Monokote MK-10/HB	15	•	•				
Monokote MK-1000/HB	18	•	•	•			
Monokote Z-106/G	22	•	•				
Monokote Z-106/HY	22	•	•	•	•	•	
Monokote Z-146, Z-146T	40	•	•	•	•	•	•
Monokote Z-156, Z-156T	50	•	•	•	•	•	•
Other Specialty Products							
Retro-Guard® - a 18 pcf product that is used for respray applications							
Monokote Z-3306 Thermal Barrier (cement-based) - a 22 pcf product used to spray over foam plastics							
Monokote Z-3306/G Thermal Barrier (gypsum-based) - a 15 pcf product used to spray over foam plastics							

* Includes offices, stores, schools, hospitals, etc.

(a) Monokote MK-6/HY, MK-6s, MK-6 GF can be used on buildings greater than 75Ft in height in markets that have not adopted the 2009 International Building Code (IBC) or later version of the IBC.

Standard Density Products -

For Interior Locations, Concealed Conditions

Monokote® MK-6® Fireproofing

Monokote MK-6 fireproofing has the highest combination of performance and value for fireproofing steel and concrete structures.

MK-6/HY® and MK-6s, MK-6 GF fireproofing products bond tightly to steel and concrete substrates, forming a uniform, durable material which does not spall, dust or flake. MK-6 fireproofing, being gypsum-based, is not designed for continuous long term exposure to weather or water. If regular exposure to moisture, or repeated physical contact is likely, specify Monokote® Z-106/HY Fireproofing to provide increased durability.

Retro-Guard® Replacement Fireproofing

Retro-Guard replacement fireproofing has been specifically developed for use in the abatement market.

Retro-Guard replacement fireproofing has the time-tested, in-place superiority of cementitious fireproofing. With superior bond and a hard, dust free surface, Retro-Guard replacement fireproofing provides the benefits and in-place performance expected of GCP Applied Technologies' Fireproofing Products.

Intermediate Durability -

Interior Locations, Exposed to View Only or for Buildings Between 75 and 420 Feet Tall

Monokote® MK-10/HB Fireproofing

Monokote MK-10/HB fireproofing provides a cost effective, high yield option for meeting the IBC bond strength requirements.

MK-10/HB fireproofing is a gypsum- based, cementitious fireproofing product designed to achieve higher bond strengths than traditional standard density products and is an excellent option for meeting the IBC building requirements for bond strength in excess of 430 psf for buildings in excess of 75' tall but less than 420 feet tall. Combining its ability to meet the IBC bond strength requirements with its high yield capabilities makes Monokote MK-10 HB fireproofing a cost effective option. It is also suitable for interior conditions that are exposed to view only where greater durability and bond strength are desired, such as exposed roof assemblies.

Monokote® Z-106/G Fireproofing

Z-106/G fireproofing can be used for interior, exposed applications where light abrasion, and damage resistance are desired

Z-106/G fireproofing is a is a low cost, medium density, gypsum-based cementitious fireproofing product for interior, dry environments subject to intermittent traffic and moderate physical exposure. Higher gypsum binder content improves damage resistance and helps maintain the fire resistance for the design life of the building. Typical applications include elevator shafts, high bay light manufacturing areas and high bay mechanical rooms.

Super High Rise Durability -
For Buildings Greater than 420 Feet Tall
Interior Locations

Monokote® MK-1000/HB Fireproofing

Monokote MK-1000/HB fireproofing provides a cost effective, high yield option for meeting the IBC bond strength requirements for Super High Rise Buildings

Monokote MK-1000/HB fireproofing is a gypsum- based, cementitious fireproofing product designed to achieve bond strengths in excess 1,000 psf, which exceeds the IBC requirements for bond strength for buildings in excess 420 feet tall. Combining its ability to meet the IBC bond strength requirements with its high yield capabilities makes Monokote MK-1000/HB fireproofing a cost effective option.

Medium Durability -
Interior Locations, Exposed Conditions to
Abrasion/Moisture or Buildings Greater than 420 Feet Tall

Monokote® Z-106/HY Fireproofing

Z-106/HY fireproofing is extremely hard, moisture-resistant and suitable for high traffic areas which require resistance to repeated physical contact and/or high humidity.

Z-106/HY fireproofing is a Portland cement- based cementitious fireproofing product designed with increased durability to meet specific commercial and industrial fire protection requirements on structural steel members, floor/ceiling and roof/ceiling assemblies. Typical applications for this medium density (22 pcf) product include equipment rooms, parking garages, and swimming pool areas.

High Durability -
Interior or Exterior Locations, Exposed Conditions
Subject to Impact or Continual Moisture

Monokote® Z-146 High Density Fireproofing

Z-146 fireproofing is designed to meet high durability standards for fire protection of interior and exterior applications.

Z-146 and Z-146T fireproofing are high density, Portland cement- based, cementitious fireproofing products. Typical applications include parking garages, industrial facilities, manufacturing facilities, and transportation terminals. Z-146T fireproofing contains an integral corrosion inhibitor as an increased measure of protection for applications such as roadway tunnels exposed to salt or other aggressive environmental conditions.

Monokote® Z-156 Ultra High Density Fireproofing

Z-156 fireproofing is designed to meet the highest durability standards for fire protection of interior and exterior applications.

Z-156 and Z-156T fireproofing are ultra high density, Portland cement- based, cementitious fireproofing products used where superior durability is required. Typical applications include parking garages, industrial facilities, manufacturing facilities, and transportation terminals. Z-156T fireproofing contains an integral corrosion inhibitor as an increased measure of protection for applications such as roadway tunnels exposed to salt or other aggressive environmental conditions.

Specialty Products

Monokote® Z-3306 Thermal Barrier

Z-3306 Thermal Barrier is a cementitious, fire-protective coating formulated for application over rigid, urethane and polystyrene foam plastics.

Spray- applied to interior foam surfaces on walls and ceilings, Z-3306 fireproofing forms a hard, durable, monolithic thermal barrier against heat and fire. Typical applications include:

- Breweries, freezers and coolers
- Pig and dairy barns
- Indoor tennis courts and swimming pools
- Seed storage and processing
- Ice arenas and recreation centers
- Water treatment plants
- Controlled atmosphere apple, potato and vegetable storage

Monokote® Z-3306/G Thermal Barrier

Z-3306/G Thermal Barrier is a gypsum-based spray applied thermal barrier specifically formulated for application over sprayed polyurethane foam plastics (SPF) with nominal density of 0.5 pounds per cubic foot (pcf).

When applied, Z-3306/G fireproofing forms a well adhered, monolithic thermal barrier protecting the sprayed polyurethane foam plastics from the effects of heat and fire. This product is designed for interior use only. Z-3306/G thermal barrier should not be used for exterior applications or exposure to continuous unconditioned high humidity environments or where free water may condense.

Service Centers

To locate your local GCP Fireproofing representative, or to obtain additional product information, contact your local service center by dialing 866-333-3SBM (3726). This information is also located on the web at www.gcpat.com.

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