

Selection & Specification Data

- Generic Type** Medium density, cementitious, noncombustible, inorganic fireproofing supplied as a single powder component that is mixed with clean, potable water prior to application.
- Description** A single package powder component mixed with clean, potable water before application. It is intended for application to interior structural columns, beams, joists, decks, walls, roofs, girders, floors and pre-cast concrete units. It is tested and certified for fire resistance ratings up to 4 hours. TYPE 7GP™ was specifically formulated for interior high humidity areas. It is resistant to damage and moisture and is an excellent choice for use in high traffic areas, mechanical rooms, swimming pool areas elevator shafts and parking garages.
- Features**
- **Damage Resistant and Permanent:** TYPE 7GP is a medium density Portland cement based fireproofing. It is harder, stronger and more durable than general fireproofing. It is ideal for protection of structural steel under conditions too severe for general fireproofing where the potential for damage exists.
 - **Noncombustible**
 - **Moisture Resistant:** TYPE 7GP is Portland cement based which provides it the ability to withstand the effects of high humidity that may cause other fireproofing products to deteriorate.
 - **Economical:** TYPE 7GP offers the lowest installed cost when compared to products with similar performance characteristics.
 - Excellent film build – On all surfaces including columns, beams and decks.
 - Applicator friendly – High film build, no alum required for increased coverage and easy clean-up.
 - Asbestos-free – complies with EPA and OSHA regulations.
 - Mineral Wool free – no airborne fibers.
 - Styrene free – no toxic decomposition gases.
 - Multiple UL Designs – Provides for design flexibility with over 100 UL designs.
 - Quality Manufactured – under strict Carboline quality standards.
 - UL inspection service, consistent quality in every bag.
 - Ready to use – No site additives required.

Selection & Specification Data (cont.)

- Primers** Type 7GP neither promotes nor prevents corrosion. Fireproofing should not be considered part of the corrosion protection system. Primers are not required or recommended. For contour applications where steel is primed, bond strength must meet minimum UL criteria. Please contact the Fireproofing Division for further information.
- Topcoats** Generally not required. In severely corrosive atmospheres, consult Carboline Technical Service for selection of coating most suitable for the operating environment.
- Thickness** Recommended thickness depends on desired rating and assembly to be fireproofed.
Caution: When applying Type 7GP to flexible roof systems it is required that Type DK adhesive is used. Also be sure that all roof work is completed and water tight before commencing installation of fire protection. Roof traffic shall be limited to maintenance only after the fire protection has completely cured.
- Limitations** Not intended for permanent exterior exposure. Contact Carboline for alternate product recommendations.

Physical Data (Typical Values)

Type 7 GP™ Color	Gray
Density ⁽¹⁾ , ASTM E605	22 pcf (350 kg/m ³) nominal
Combustibility, ASTM E136	Passed, noncombustible
Compressive strength, ASTM E761	17136 psf (820 kPa)
Cohesion / Adhesion, ASTM E736	>2000 psf (>47.9 kPa)
Air erosion, ASTM E859	0.004 g/ft ² after 24 hours at high speed (2000 ft/min)
Deflection, ASTM E759	Passed, no spalling or delaminating
Shore D Hardness, ASTM D2240	20.1
Impact, ASTM E760	Passed, no spalling or delaminating
Corrosion of Steel, ASTM E937	Passed
Surface burning characteristics, ASTM E84	FSI = 0, SD = 0
Fungi Resistance, ASTM G21	No growth
Coverage per 50 lb. Bag ⁽²⁾	30 bd. ft at 22 pcf
⁽¹⁾ Air dry at ambient conditions to constant weight. Do not force cure. Use ASTM E605 bead displacement method.	
⁽²⁾ Theoretical gross. Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.	

Test reports and additional data available upon written request.

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Approvals

Construction Type	Rating(s), hours					ULI Design No.
	1	1.5	2	3	4	
Protected Floor / Ceiling	B	B	R	R	-	D703
	B	B	B	B	B	D739
	B	B	B	B	-	D743
	-	U	U	R	-	D753
	-	B	R	-	-	-
	-	U	U	R	R	D754
	B	-	-	-	-	-
	B	B	B	B	B	D788
Unprotected Floor / Ceiling	R	R	R	R	-	D916
	-	R	R	R	-	D917
	B	B	B	B	B	D949
	R	R	R	-	-	-
Concrete Floor or Roof	U	-	R	-	-	J701
	-	-	B	B	B	J704
	-	-	B	B	B	J705
	B	B	B	B	-	J709
	B	B	B	B	B	J718
	-	-	B	R	R	J919
Beam or Joist	B	B	B	B	B	N706
	B	U	B	B	B	N708
	B	B	B	B	-	N736
	B	B	B	-	-	N754
	B	B	B	B	B	N791
	B	B	B	B	B	S701
	B	B	B	-	-	S702
	B	B	B	B	-	S715
	B	B	B	B	B	S739
	B	B	B	B	B	S740
	Protected Roof / Ceiling	B	B	B	-	-
B		B	B	-	-	P711
B		B	B	-	-	P717
B		B	B	-	-	P741
Unprotected Roof / Ceiling	R	B	B	-	-	P907
	R	R	R	-	-	P921
Metal Wall Assembly	B	B	B	B	-	U703
Columns	-	-	B	B	B	X527
	B	B	B	B	B	X771
	B	B	B	B	B	X772
	B	B	B	B	B	Y725

Most frequently used designs are in **bold**.

R – Restrained, U – Unrestrained, B – Both R and U

For details of fire rated assemblies, refer to ULI's Fire Resistance Directory, Volume 1.

Other UL Designs not included in the table are:

A702, D701, D704, D705, D706, D708, D709, D710, D711, D712, D715, D716, D722, D723, D725, D726, D727, D728, D729, D730, D740, D742, D744, D745, D746, D747, D748, D750, D751, D752, D756, D758, D905, D907, D909, D910, D920, G701, G702, G703, J706, J957, J966, N401, N404, N732, N756, P708, P709, P710, P675, P676, P714, P901, P902, P907, P919, P920, P923, X701, X704, X722, X723, X751, X752

NOTE: Designs are continuously updated and developed. Contact your Carboline Representative for current information.

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CITY OF NEW YORK / DEPARTMENT OF BUILDINGS

Type 7GP™ has been found acceptable for use in accordance with the following MEA report numbers:

MEA-55-04-M Vol. II	Wall
MEA 56-04-M Vol. II	Beam and Floor / Ceiling
MEA 409-02-M Vol. III	Columns and Roof / Ceiling

Caution: When applying Type 7GP™ to flexible roof systems it is required that Type DK adhesive is used. Also be sure that all roof work is completed and water tight before commencing installation of fire protection. Roof traffic shall be limited to maintenance only after fire protection is applied and cured.

Packaging, Handling & Storage

Shipping Weight (Approximate)	50 lb. (22.6 kg) in polyethylene bags.
Storage (General)	Store indoors in a dry environment.
Storage Temperature	32°F (0°C) – 125°F (52°C)
Shelf Life*	1 year

*Shelf Life: (actual stated shelf life) when stored indoors in a dry place and in original unopened containers.



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