



# FIRE PROTECTION SYSTEMS

## Southwest™ Fireproofing Type 7 GP™

### 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 at interior locations 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 build per pass on all surfaces including columns, beams and decks.
  - Applicator friendly – no alum required for increased coverage and easy clean-up.
  - Asbestos-free.
  - Mineral Wool free – no airborne fibers.
  - Styrene free – no toxic decomposition gases.
  - Multiple cUL and UL Designs – Provides for design flexibility with over 100 cUL and UL designs.
  - Quality Manufactured – under strict A/D quality standards.
  - ULC/ULI/cUL inspection service, consistent quality in every bag.
  - Ready to use – No site additives required.

**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 A/D for further information.

**Topcoats** Generally not required. In severely corrosive atmospheres, consult A/D 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 A/D for alternate product recommendations.

### Physical Data (Typical Values)

Type 7GP™ Colour	Gray
Density <sup>(1)</sup> , ASTM E-605	350 kg/m <sup>3</sup> (22 pcf) nominal
Combustibility, E136	Passed, noncombustible
Compressive Strength, ASTM E-761	820 kPa (17136 psf)
Cohesion / Adhesion, ASTM E-736	(>47.9 kPa (>2000 psf )
Air Erosion, ASTM E-859	0.004 g/ft <sup>2</sup> after 24 hours at high speed (2000 ft/min)
Deflection, ASTM E-759	Passed, no spalling or delaminating
Shore D Hardness, ASTM D2240	20.1
Impact, ASTM E-760	Passed, no spalling or delaminating
Corrosion of Steel, ASTM E-937	Passed
Surface Burning, ASTM E-84	Flame Spread: 0, Smoke: 0
Fungi Resistance, ASTM G-21	No growth
Coverage per 50 lb. bag <sup>(2)</sup>	30 bd. ft at 22 pcf
<sup>(1)</sup> Air dry at ambient conditions to constant weight. Do not force cure. Use ASTM E605 bead displacement method.	
<sup>(2)</sup> Theoretical gross. Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.	

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## Approvals

Construction Type	Rating(s), hours					Design No.	
	1	1.5	2	3	4	ULI	ULC
Protected Floor, Ceiling	B	B	R	R	-	D703	B
	B	B	B	B	B	<b>D739</b>	B
	B	B	B	B	-	D743	B
	-	U	U	R	-	D753	-
	-	B	R	-	-	-	-
	-	U	U	R	R	D754	-
	B	-	-	-	-	-	B
	B	B	B	B	B	<b>D788</b>	B
Unprotected Floor, Ceiling	R	R	R	R	-	<b>D916</b>	R
	-	R	R	R	-	<b>D917</b>	-
	B	B	B	B	B	<b>D949</b>	B
	R	R	R	-	-	-	R
Concrete Floor or Roof	U	-	R	-	-	J701	U
	-	-	B	B	B	J704	-
	-	-	B	B	B	J705	-
	B	B	B	B	-	J709	B
	B	B	B	B	B	<b>J718</b>	B
	-	-	B	R	R	J919	-
Beam or Joist	B	B	B	B	B	N706	B
	B	U	B	B	B	N708	B
	B	B	B	B	-	N736	B
	B	B	B	-	-	N754	B
	B	B	B	B	B	<b>N791</b>	B
	B	B	B	B	B	S701	B
	B	B	B	-	-	S702	B
	B	B	B	B	-	S715	B
	B	B	B	B	B	S739	B
	B	B	B	B	B	<b>S740</b>	B
Protected Roof, Ceiling	B	B	B	-	-	P701	B
	B	B	B	-	-	P711	B
	B	B	B	-	-	P717	B
	B	B	B	-	-	<b>P741</b>	B
Unprotected Roof, Ceiling	R	B	B	-	-	P907	R
	R	R	R	-	-	<b>P921</b>	R
Metal Wall Assembly	B	B	B	B	-	<b>U703</b>	B
Columns	-	-	B	B	B	X527	-
	B	B	B	B	B	<b>X771</b>	B
	B	B	B	B	B	X772	B
	B	B	B	B	B	<b>Y725</b>	B

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, J957, J966, N401, N404, N720, N732, N756, N763, P675, P676, P708, P709, P710, P714, P901, P902, P908, P919, P920, P923, S725, X701, X704, X722, X723, X738, X751, X752, X794

Other ULC Designs not included in the table are:  
X808, X813, X819, X820, X821, Z806, Z807, Z810,

NOTE: Designs are continuously updated and developed. Contact your A/D Representative for current information.

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## Packaging, Handling & Storage

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

<sup>+</sup>Shelf Life: (actual stated shelf life) when stored indoors in a dry place and in original unopened containers.

Type 7GP™ is manufactured under license to Southwest Fireproofing™ Products by



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