

Selection & Specification Data

Generic Type	Medium density, cementitious, noncombustible, inorganic thermal barrier 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 a cementitious thermal barrier fire protection material designed primarily to be a protective barrier for foam plastics. A secondary use is for steel fireproofing. Type 7TB is specifically formulated to resist exposure to high humidity and for direct application to rigid urethane and polystyrene.
Features	<ul style="list-style-type: none"> • Damage Resistant and Permanent: TYPE 7TB is a medium density Portland cement based thermal barrier. It is a hard product that resists normal abuse in high traffic areas. • Noncombustible • Moisture Resistant: TYPE 7TB is Portland cement based which provides it the ability to withstand the effects of high humidity that may cause other products to deteriorate. • 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. • UL Listed • Quality Manufactured – under strict Carboline quality standards. • UL inspection service, consistent quality in every bag. • Ready to use – No site additives required.
Primers	Primers are not required or recommended.
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 per UL Listing.
Limitations	Not intended for permanent exterior exposure. Contact Carboline for alternate product recommendations.

Physical Data (Typical Values)

Type 7 TB™ Color	Gray
Density ⁽¹⁾ , ASTM E605	22 pcf (350 kg/m ³) nominal
Cohesion / Adhesion, ASTM E736	1260 psf (60.3 kPa)
Compressive strength, ASTM E761	19008 psf (910 kPa)
Penetration Resistance, ASTM C569	54032 psf (2587 kPa)
Surface burning characteristics, ASTM E84	½" thick over polystyrene: FS 5 and SD 0 ½" thick over urethane: FS 10 and SD 0
ULI ICBO Enclosed Corner Test	¾" Type7 TB over 2" foam plastic for 15 minute finish rating. (Both urethane and polystyrene insulations)
Coverage per 50 lb. Bag ⁽²⁾	26 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

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.



350 Hanley Industrial Court, St. Louis, MO 63144-1599
314/644-1000 314/644-4617 (fax) www.carboline.com

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