Sonotex - 5

Medium Density Interior Grade Finish

Product Information

Sonotex 5 is a medium density, spray-applied acoustical coating specially designed for interior sound absorption applications.

Sonotex 5 is a Portland cement based, factory mixed material that requires only the addition of water on the jobsite to form a consistent pumpable slurry.

Features and Benefits

- **Excellent Sound Absorption Characteristics**
  Tested in accordance with ASTM C 423 and E 795, NRC of 0.75 at 25mm (1 inch)
- **Durability**
  Sonotex 5 is moisture resistant and its hardness helps resist against physical damage.
- **Low Installed Cost**
  Low material cost and direct spray on application saves time and money. **Sonotex 5** may be applied in 13mm (1/2 inch) passes which means quicker thickness build-up in fewer passes.
- **Hourly Fire Protection Ratings**
  Sonotex 5 has been tested in accordance with ASTM E 119 fire test standards for various fire resistive assemblies.

ACOUSTICAL PERFORMANCE CHARACTERISTICS									
Sound Absorption Coefficient at Given Hertz									
Thickness			Frequency (Hz)						
Inches		Mount	125	250	500	1000	2000	4000	NRC
½”	(13mm)	Solid	.07	.20	.45	.58	.57	.55	.45
1”	(25mm)	Solid	.11	.37	.64	.69	.62	.62	.60
1 ¾”	(45mm)	Solid	.33	.57	.85	.89	.87	.82	.80
Testing conducted in accordance with ASTM C 423 and E 795 at Riverbank Laboratories on solid backing									

PHYSICAL PERFORMANCE CHARACTERISTICS		
Property	**Performance Values**	**Test Method**
Dry Density	352 kg/m^3 (22 PCF)	ASTM E 605
Bond Strength	4,882 kg/m^2 (1,000 PSF)	ASTM E 736
Compressive Strength of 10% Deformation	.54 Mpa (79 psi)	ASTM E 761
Air Erosion	.000 g/m^2 (.000 g/ft^2)	ASTM E 859
Yield (Theoretical Maximum)	(2.32 m^2 at 25mm) 25 board feet per bag	
Color	Gray, other upon request	
*Physical Properties reported for the typical in-place density		

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Delivery and Storage

Sonotex 5 shall be kept dry until ready for use. Packages of material shall be kept off the ground, under cover and away from sweating walls and other damp surfaces. All that has been exposed to water before use shall be discarded. Stock of material is to be rotated and used before its expiration date.

Surface Preparation

Prior to the application of Sonotex, an inspection shall be made to determine that all surfaces are acceptable to receive **Sonotex 5**. All surfaces must be clean, dry and free of oil, water soluble material and other contaminants. Surfaces must be sound, and well attached to a secure substrate capable of supporting the wet weight of **Sonotex 5**.

Concrete Surface: New concrete should be aged a minimum of 60 days prior to **Sonotex 5** application. Projections and edges remaining after removal of forms should be ground down such that a smooth surface is attained. Grinding dust and other foreign matter should be removed prior to **Sonotex 5** application. Apply an approved bonding agent over the surface of the concrete to receive **Sonotex 5**.

Steel Surfaces: Remove any loose rust, mill scale, dirt or oils that may be present on the steel surface. The project architect shall determine if the painted/primed steel to receive acoustical finish has been tested in accordance with ASTM E-119, to provide the required fire resistance rating.

Mixing

Sonotex 5 shall be mixed by machine in a conventional, plaster-type miser or a continuous mixer specifically designed for lightweight cementitious plaster-based materials. The mixer shall be kept clean and free of all previously mixed material. The mixer speed and mix time in a conventional mixer shall be adjusted to give adequate blending of the material and a mixer density of 625- 689 kg/m^3 (39-43 pcf).

With a conventional mixer, use a suitable water metering device and add all the water to the mixer with the blade turning. Use approximately 23 to 28L (6.0 to 7.5 gal) per bag of **Sonotex 5**. Mixing shall continue until all material is thoroughly wet and the mix is lump-free with a creamy texture.

Temperature and Ventilation

An air and substrate temperature of 4.4°C (40°F) minimum shall be maintained during and for 24 hours after application of **Sonotex 5**.

Provision shall be made for ventilation to properly dry the plaster after application. In enclosed areas lacking natural Provision shall be made for ventilation to properly dry the plaster after application. In enclosed areas lacking natural ventilation, air circulation and ventilation must be provided.

Application

Sonotex 5 shall not be used if it contains partially set, frozen or caked material.

Sonotex 5 is formulated to be mixed with water at the jobsite.

Sonotex 5 may be spray-applied using standard plastering type equipment or continuous mixer/pump units over a wide range of pumping rates. Orifice size and air pressure should be adjusted to yield the desired finished texture.

Sonotex 5 should have an average, dry, in-place density of 352 kg/m^3 (22 pcf).

Sonotex 5 may be applied at various rates that are dependent using standard plastering type equipment or continuous mixer-pump units. A spray gun with a properly sized orifice and spray shield, and air pressure at the nozzle of approximately 0.14 Mpa (20 psi) will provide the correct hangability, density and appearance.

Note:
If freshly sprayed **Sonotex 5** does not adhere properly, it is probably due to a too wet mix, poor thickness control of an improperly cleaned substrate.

Safety

Sonotex 5 is slippery when wet. The general contractor and application shall be responsible for posting appropriate cautionary **SLIPPERY WHEN WET** signs. Signs should be posted in all areas in contact with wet material. Anti-slip surfaces should be used on all working surfaces.

A Material Safety Data Sheet for Sonotex 5 is available upon request.