

# Sonotex - 35

## Heavy Duty Exterior Grade Finish

### Product Information

**Sonotex 35** is a high density, spray-applied acoustical coating specially designed for interior and exterior sound absorption applications.

**Sonotex 35** is a Portland cement based, factory mixed material that requires only the addition of water on the jobsite to form a consistent pumpable slurry.

**Sonotex 35** has physical characteristics that ideal for applications that require a hard durable coating such as rapid transit, transportation, educational, correctional facilities and heavy industrial facilities.

It is ideal for new construction, repair or remodeling work. It may be applied over most concrete and steel surfaces.



### 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)
- **High Bond Strength**  
**Sonotex 35** achieves over 35,150 kg/m<sup>2</sup> (7,200 pounds) of bond when tested in accordance with a modified version of ASTM E 859 at surface air speed of 47 kph (29 mph).
- **Durability**  
**Sonotex 5** is moisture resistant and its hardness helps resist against physical damage.
- **User Friendly Application**  
**Sonotex 35** is designed with the applicator in mind for maximum user-friendliness. It may be sprayed through a variety of standard spray equipment in passed up to 19mm (3/4 in.) thick. This minimizes the time on the job.
- **Low Maintenance Cost**  
**Sonotex 35** may be cleaned with moderate care and is designed to stand up over time. **Sonotex 35** may be integrally colored to save initial and remedial painting expense.
- **Hourly Fire Protection Ratings**  
**Sonotex 35** 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	Mount	Frequency						
		125	250	500	1000	2000	4000	NRC
13mm (1/2 in.)	Solid	.06	.16	.46	.73	.88	.92	.55
25mm (1 in.)	Solid	.06	.19	.58	.79	.84	.85	.60
31mm (1 ¼ in.)	Solid	.06	.19	.53	.95	1.01	.98	.65
38mm (1 ½ in.)	Solid	.13	.25	.58	.99	1.03	.99	.70
45mm (1 ¾ in.)	Solid	.13	.30	.84	1.04	1.01	1.01	.80
64mm (2 ½ in.)	Solid	.15	.48	1.08	.98	1.02	1.04	.90
76mm (3 in.)	Solid	.26	.76	1.00	.97	1.07	1.05	.95

Test conducted by Riverbank in accordance with ASTM C 423 and E 795 at Riverbank Laboratories on solid backing

## Physical Performance Characteristics

Property	Values	Test Method
Dry Density	641 kg/m <sup>3</sup> (40 pcf)	ASTM E 605
Minimum Average Specified Bond Strength	35,150 kg/m <sup>2</sup> (7,200 psf)	Modified ASTM E 736
Compressive Strength at Ultimate Failure	6.2 MPa (900 PSI)	ASTM E 761
Hardness (Shore D)	40	ASTM D 2240
High Speed Air Erosion	0.032 g/m <sup>2</sup> (003 g/ft <sup>2</sup> )	ASTM E 859
Yield (Theoretical Maximum)	1.48 m <sup>2</sup> at 25mm (16 board feet per bag)	
Color	Grey, other upon request	

### Delivery and Storage

The material shall be kept dry until ready for use. Packages of material shall be kept off the ground, under cover and away from damp surfaces. All bags that have been exposed to water before use shall be discarded. Stock of material is rotated and used before the expiration date.

### Surface Preparation

Prior to the application of **Sonotex 35**, an inspection shall be made to determine that all surfaces are acceptable to receive **Sonotex 35**. The surfaces to be covered shall be free of oil, grease, excess rolling compounds or lubricants, loose mill scale, excess rust, non-compatible primer, lock down agent or any other substance that will impair proper adhesion. Where necessary, the cleaning of surfaces to receive coating shall be the responsibility of the general contractor. Surfaces must be sound and well attached to a secure substrate capable of supporting the wet weight of **Sonotex 35**.

**Concrete Surfaces:** New concrete should be aged a minimum of 60 days prior to material 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 35** application. Apply an approved bonding agent over the surface of the concrete to receive **Sonotex 35**.

**Steel Surfaces:** The project architect shall determine if the painted/primed steel to receive **Sonotex 35** has been tested in accordance with ASTM E-119, to provide the required fire resistance rating if required.

### Mixing

**Sonotex 35** shall be mixed by machine in a conventional, plaster-type mixer 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. Add 15 liters (4.0) of water to each bag. The mixer speed in a conventional mixer shall be adjusted to the lowest speed which gives adequate blending of the material and a mixer density of 833 to 945 kg/m<sup>3</sup> (52 to 59 pcf) of material.

Using a suitable metering device and a conventional mixer, all water shall be first added to the mixer as the

blades turn. Mixing shall continue until all material is thoroughly wet and the mix is lump-free with a creamy texture. All material is to be thoroughly wet. Target density of 833 to 945 kg/m<sup>3</sup> (52 to 59 pcf) is most desirable. Over-mixing **Sonotex 35** will reduce pumping rate.

### Temperature and Ventilation

- An air and substrate temperature of 4.4°C (40°F) minimum shall be maintained during and 24 hrs. after application of **Sonotex 35**.
- Provisions shall be made for ventilation to properly dry the material after application. In enclosed areas lacking natural ventilation air circulation and ventilation must be provided.

### Application

**Sonotex 35** shall not be used if it contains partially set, frozen or caked material.

**Sonotex 35** is formulated to be mixed with water at the jobsite.

**Sonotex 35** should have an average, dry, in-place density of 641 kg/m<sup>3</sup> (40 pcf).

**Sonotex 35** may be spray-applied using standard plastering type equipment or continuous mixer/pump units over a wide range of pumping rates. Minimum orifice size is 22mm (7/8 in.). Air pressure should be set a minimum of 0.345 MPa (50 psi).

**Note:** If freshly sprayed **Sonotex 35** does not adhere properly, it is probably due to a too wet mix, poor thickness control of an improperly cleaned substrate.

**Sonotex 35** must be applied to a rough texture for maximum sound absorption.

### Safety

**Sonotex 35** 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 35 is available upon request.**