



protective coatings and resin flooring

ALLEGGERITO SOTTOFONDO

PRODUCT DATA

PRODUCT DESCRIPTION

Alleggerito Sottotondo is a three-component, IMO-approved, polyurethane material designed for easy application for all external deck applications requiring an underlayment. It is used for substrate repair, leveling and pitching. Alleggerito Sottotondo can be applied up to 15mm (9/16 in.) per lift. It is comprised of a three-component mortar consisting of a urethane base, hardener and a recycled EPDM rubber filler.

PACKAGING

Alleggerito Sottotondo is packaged in units for easy handling. Each unit consists of:

- (1) 5 gallon pail of Polyol
- (1) 3 gallon pail of Isocyanate
- (1/2) kraft paper bag of recycled EPDM rubber

COVERAGE

At a nominal 10 mm (3/8 in.) pre-sanded thickness, each unit of Alleggerito Sottotondo will cover approximately 4.2 m² (45 ft²). This amounts to an application rate of 8.3 kg/m².

STORAGE CONDITIONS

Store all components of Alleggerito Sottotondo between 5 and 30°C (41 and 86°F) in a dry area. Avoid excessive heat and direct sunlight. Do not freeze. The shelf lives of the Polyol and Isocyanate are 3 years and 2 years, respectively, in the original, unopened container.

SUBSTRATE

Alleggerito Sottotondo is suitable for application over properly prepared steel, aluminum, concrete or wood surfaces. It is not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to overlayment.

SUBSTRATE PREPERATION

Proper mechanical preparation is critical to ensure an adequate bond and system performance. The substrate must be clean, dry and free of contamination before material application. When applying over aluminum, stainless steel, or galvanized substrates, the use of Primer 5 is required immediately after mechanical preparation. Questions regarding substrate preparation should be directed to an API USA representative.

PHYSICAL CHARACTERISTICS

Hardness	26
(ASTM D-2240, Shore D)	
Density	828.8 kg/m ³
Mix Ratio by Weight	49.3/100/84.6
(Hardener/Base/Filler)	
Mix Ratio by Volume	2.0/1/1.7
(Base/Hardener/Filler)	
VOC Content	5 g/L
(ASTM D-2369, Method E)	
Percent Solids	99.5%
Flash Point	94°C (>201°F)
Pot Life	60 min
(@23°C/74°F)	
Recoat Time	24 hours
(@23°C/74°F)	
Cure Rate	5-6 hours for initial set
(@23°C/74°F)	
	12 hours for light traffic
	7 days for ultimate physical properties

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment. Values obtained on field applied materials may vary, and certain test methods can only be conducted on lab-made test coupons.

PRIMING/UNDERLAYMENT

The use of Primer per Metalli is required for all applications of Alleggerito Sottotondo. The Primer per Metalli must be tack-free prior to Alleggerito Sottotondo application.

MIXING ALLEGGERITO SOTTOFONDO

Proper mixing is critical for the products to exhibit the proper application, cure and physical properties.

1. If the base shows signs of separation, pre-mix with a heavy-duty, slow-speed drill (400-600 rpm) with a Jiffy Mixer until homogenous.
2. Pour the hardener into the pail containing the base, scraping any residual hardener from the bottom and sides of the pail. Mix for 60 seconds.
3. Pour the contents of the pail into a clean container. Add half of the bag of recycled EPDM rubber to the mixture and mix for an additional 60 seconds. If necessary, add Accelerante while mixing to catalyze the curing process. See the table in the Appendix to determine how much Accelerante to add.

APPLYING ALLEGGERITO SOTTOFONDO

1. Pour the contents of the pail into a bead on the floor where it can be applied.
2. Apply the material to the substrate using a 9 mm x 9 mm (3/8 in. x 3/8 in.) notched trowel. To achieve the proper thickness, hold the trowel at approximately 45°, floating the notches over the surface of the substrate.
3. A looped roller may be used for thinner applications (<10 mm) to push the rubber down and flatten the surface of the material.

SANDING ALLEGGERITO SOTTOFONDO

1. After the Alleggerito Sottotondo has cured, begin the sanding process. Using an approved floor sander with 36 grit sandpaper and an edge sander with 60 grit sandpaper, sand the surface of the Alleggerito Sottotondo to attain a flat, smooth surface.
2. Once sanding is complete, vacuum the floor until clean and prepare to apply the next layer of material.

RECOMMENDATIONS

- Apply only to clean, sound, dry and properly prepared substrates.
- Application and curing times are dependent upon ambient and substrate conditions.
- Minimum ambient and substrate temperatures are 5°C (41°F) at the time of application. However, it is not advisable to apply the material if the temperature is below 10°C (50°F).
- Maximum ambient and substrate temperatures are 35°C (95°F) at the time of application.
- Substrate temperature should be greater than 3°C (5°F) above the dew point.
- Do not apply material if the relative humidity exceeds 85%.
- Dispose of waste materials in accordance with government regulations.
- Clean all equipment immediately after use with scouring pads and acetone. Hardened material will require mechanical means for removal.

PRECAUTIONS

- The use of safety glasses and impervious gloves is required during application.
- Avoid contact with all liquids as they may cause skin and/or eye irritation. In case of contact, flush the area with copious amounts of water for at least 15 minutes and seek medical attention.
- Wash hands thoroughly with soap and warm water after use.
- Use only with adequate ventilation.

APPENDIX – ACCELERANTE

The table below shows how much Accelerante to add to each mix of Alleggerito Sottofondo, by volume and by weight. Add the Accelerante to the mix after transferring to a clean container.

Temperature Range °C (°F)	Volume of Accelerante mL (fl. oz.)	Weight of Accelerante g (oz.)
3-10 (37-50)	59.0 (2.00)	51.0 (1.80)
10-15 (50-59)	45.0 (1.52)	39.0 (1.38)
15-23 (59-73)	24.0 (0.81)	21.0 (0.74)
23-32 (73-90)	0	0

API USA believes the information heretofore to be true and accurate as of the date of publication. API USA makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, nor does it accept liability for the performance or application of its products, as application is executed by personnel outside the contractual ties of API USA. API USA reserves the right to modify and change products or literature at any time and without prior notice.

Rev. 02/18