PRODUCT DESCRIPTION
Apilite U070 is a three-component, IMO-approved, lightweight epoxy underlayment designed for easy application for all interior deck applications. It was specifically designed for those projects where added weight is of the highest concern. It is used for leveling and flattening the deck, and can be applied up to 15 mm (9/16 in.) per lift. Like all API products, it maintains a corrosion resistant and waterproof layer. Apilite U070 is comprised of an epoxy base, amine hardener, and lightweight filler.

PACKAGING
Apilite U070 is packaged in units for easy handling. Each unit consists of:

1 carton containing:
  4 poly bags of Resin
  4 foil bags of Amine
  4 poly bags of Filler

COVERAGE
At a nominal 10 mm (3/8 in.) pre-sanded thickness, each unit of Apilite U070 will cover approximately 2.3 m² (24 ft²).

STORAGE CONDITIONS
Store all components of Apilite U070 between 16 and 30°C (60 and 86°F) in a dry area. Avoid excessive heat and direct sunlight. Do not freeze. The shelf lives of the material is 2 years in the original, unopened container.

SUBSTRATE
Apilite U070 is suitable for application over properly prepared steel and aluminum. 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.

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Weight</td>
<td>7.9 kg/m² @ 10 mm</td>
</tr>
<tr>
<td>Mix Ratio by Weight</td>
<td>37.7/100/68.4 (Hardener/Base/Filler)</td>
</tr>
<tr>
<td>VOC Content</td>
<td>2 g/L (ASTM D-2369)</td>
</tr>
<tr>
<td>Pot Life</td>
<td>60 min (@23°C/74°F)</td>
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<tr>
<td>Recoat Time</td>
<td>24 hours (@23°C/74°F)</td>
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<tr>
<td>Cure Rate</td>
<td>8 hours for foot traffic</td>
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<tr>
<td></td>
<td>24 hours for normal operations</td>
</tr>
<tr>
<td></td>
<td>7 days for ultimate physical properties</td>
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</tbody>
</table>

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.

SUBSTRATE PREPARATION
Proper mechanical preparation is critical to ensure 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 representative.

PRIMING
Apilite U070 is a self-priming material, so the use of Primer per Metalli is not required prior to Apilite U070 application.
**MIXING APILITE U070**
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 an eggbeater 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 large mixing container (15-20 gal). Slowly add the filler to the mixture and mix for an additional 90 seconds.
   
   *Note:* It is important to choose a mixing tub that is smooth and free from ridges or edges where filler can become trapped. A rope handle tub is highly recommended.

**APPLYING APILITE U070**

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 proper thickness, hold the trowel at approximately 45°, floating the notches over the surface of the substrate.
3. After the material is trowelled, a spike roller is used to roll the material. The use of a spike roller allows air to escape and levels the surface of the material. Apilite U070 should be spike rolled a minimum of six times (forward and back) to eliminate any entrained air.

**SANDING APILITE U070**

1. After the Apilite U070 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 floor 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.