



protective coatings and resin flooring

PRIMER PER METALLI

PRODUCT DESCRIPTION

Primer per Metalli is a two-component, polyurethane based priming material. It is applied to a properly prepared surface prior to the application of the appropriate API USA overlayment. The use of Primer per Metalli ensures a secure bond between the substrate and the overlayment, reduces absorption of the overlayment into the substrate and makes the application of the overlayment easier.

PACKAGING

Primer per Metalli is packaged in units for easy handling. Each unit consists of:

- (1) 1 gallon can of Polyol
- 1 foil bag containing of Isocyanate

COVERAGE

One unit of Primer per Metalli, when mixed with 0.4 kg (0.9 lb) of solvent, will cover approximately 25 m² (270 ft²) of relatively smooth surface at 6 mil wet film thickness. This amounts to an average application rate of 0.2 kg/m². Over rougher surfaces, a unit of Primer per Metalli will not cover the full 25 m² (270 ft²). The rougher or more porous the surface, the less area a unit will cover. It is important to get complete coverage without leaving pools of material in depressions.

STORAGE CONDITIONS

Store all components of Primer per Metalli between 5 and 30°C (41 and 86°F) in a dry area. Avoid excessive heat and direct sunlight. Do not freeze. The shelf life of the material is 2 years in the original, unopened container.

SUBSTRATE

Primer per Metalli 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	75
(ASTM D-2240, Shore D)	
Density	1135.7 kg/m ³
Mix Ratio by Weight	19.0/100
(Hardener/Base)	
Mix Ratio by Volume	5.5/1
(Base/Hardener)	
VOC Content	228 g/L
(ASTM D-2369, Method E)	
Percent Solids	80%
Flash Point	45°C (113°F)
Pot Life	60 min
(@23°C/74°F)	
Recoat Time	24 hours
(@23°C/74°F)	
Cure Rate	4-6 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.

MIXING PRIMER PER METALLI

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 contents of the base and hardener into a clean container and mix for 60 seconds.
3. To ensure proper coverage, add 0.4 kg (0.9 lb) of solvent to the material and mix for an additional 30 seconds. Acetone or xylene are recommended. 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 PRIMER PER METALLI

Primer per Metalli may be applied by brush or medium nap roller to 5-6 mil wet film thickness. DO NOT SQUEEGEE the material. It is important to obtain proper coverage and not allow the material to puddle in holes or depressions in the substrate.

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 Primer per Metalli, 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.)
5-15 (41-59)	10.0 (0.34)	8.7 (0.31)
15-30 (59-86)	5.0 (0.17)	4.4 (0.15)
>30 (>86)	0	0

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