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## 1. Identification

Tradename	:	Proterium Alu, anti-corrosion metalization
Manufacturer	:	Proterium BV Het Ambacht 17 6931 EZ Westervoort
E-mail:	:	info@proterium.eu

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## 2. Product Description

A three component metalization, designed to provide superior corrosion resistance as a single coat at C5-level and as a two-layer system to CX-level. The very high content of aluminum in a dry coat (61%) provides superb protection in environments with high corrosivity.

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## 3. Areas of use

As a new building or maintenance primer, in both on- and offshore areas. For use in corrosivity categories up to CX (ISO 12944-9). For use in aggressive environments like platforms, wind-farms, maritime, bridges, mining, petrochemical plants, power-plants etc.

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## 4. Product Characteristics

<i>Property</i>	<i>Description</i>
<b>Color</b>	Grey
<b>Gloss Level (GU 60°)</b>	Matt
<b>Volume Solids</b>	91%
<b>Typical Film Thickness</b>	Dry: 75 µm – 150 µm / wet: 85 µm – 165 µm
<b>Theoretical Spreading Rate</b>	12,1 – 6,0 m <sup>2</sup> /l
<b>Practical Spreading Rate</b>	When calculating practical spreading rate, appropriate loss factor and dead volume should be taken into consideration
<b>Flash Point</b>	33,5°C
<b>Density</b>	1,44 kg/l
<b>VOC</b>	90 g/l

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## 5. Surface preparation

### Steel Dressing / Metal Finishing

Depending on environment of exposure. For best performance in harsh environments P3 is recommended. Minimum P2 can be performed in case of shorter lifetime expectances and/or mild environment of exposure.

### Cleanliness

For maximum protection and obtaining all product protective properties, substrate must be free from any contaminations and abrasive blast cleaned to minimum Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

### Profile

Substrates anchor profile of Fine to Medium G (ISO 8503-2) is recommended

### Coated Surfaces

Clean, dry and undamaged compatible coating.

## 6. Application

<b>Mixing and ratio (in grams) in 23°C</b>	base - 100 / aluminum dust - 125 / catalyst (MEKP) - 2
<b>Induction Time</b>	not needed
<b>Pot Life</b>	30 minutes in 23°C
<b>Application Methods &amp; Guidance</b>	standard airless spray may be used; brush to be used for minor areas like stripe coating or touch up
<b>Thinner &amp; Cleaner</b>	thinner: Styrene thinning max: 5% (thinning is not recommended)
<b>Cleaning solvent</b>	a universal thinner for a heavy-duty epoxy coating
<b>Flushing Spraying Gear</b>	spraying gear should be flushed every 60 minutes during application in 23°C; frequency of flushing is temperature depending
<b>Note</b>	When thinners are used for thinning or as a cleaning solvent, the use must be in accordance with prevailing local regulations

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## 7. Drying Times

	<b>15°C</b>	<b>23°C</b>	<b>30°C</b>	<b>40°C</b>
Touch Dry	3 h	3 h	3 h	1 h
Hard Dry	7 h	6 h	4,5 h	2 h
Overcoating Minimum	7,5 h	7,5 h	5,5 h	2 h
Cured for Service	3 d	3 d	2 d	1 d

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## 8. Heat Resistance

### Dry, atmospheric

### 200°C Continuous

This product can withstand continuous temperature of 200 °C. The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

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## 9. Compatibility

Easily recoatable with most inorganic coatings. Can be used as a primer in multilayer coating system. Please contact manufacturer for details.

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## 10. Packaging

Packaged in 10 and 20 KG sets. Sets are composed with metal-powder, hardener and binder.

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### 11. Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 23 °C

Base	6 months
Aluminum dust	48 months
Catalyst	48 months

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### 12. Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

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### 13. Disclaimer

The information in this document is given to the best of PROTERIUM's knowledge, based on laboratory testing and practical experience. PROTERIUM's products are considered as semi-finished goods and as such, products are often used under conditions beyond PROTERIUM's control. PROTERIUM cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. PROTERIUM reserves the right to change the given data without further notice. Users should always consult PROTERIUM for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.