SPECIALIZED COATING SYSTEMS
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PLASTISEAL® MMA Ceramic & Metal Primer

SOLVENT FREE **2K**

Description:

A two component, clear, solvent free, low viscosity methyl methacrylate resin primer for ceramic & metal surfaces prior to the application of MMA basecoats & topcoats.

Intended Uses:

PLASTISEAL® MMA Ceramic & Metal Primer is designed to promote strong adhesion on smooth/non-porous surfaces such as ceramic tiles & metal flooring, paving & road poles. This primer provides brilliant bonding performance where traditional adhesion can be challenging.

The rapid curing time allows for fast project turnaround and PLASTISEAL® MMA Ceramic & Metal Primer offers anti-corrosive properties that help protect metal surfaces over time. It is fully compatible with MMA road marking & coating products and is ideal for demanding industrial or infrastructure environments.

Features & Benefits:

- Brilliant adhesion ceramic tiles & metal surfaces.
- Rapid curing for fat project turnaround.
- Provides anti-corrosive properties for metal surfaces.
- Compatible with MMA road marking materials & other MMA coatings.

Technical Data:

Product Physical Form	Liquid	
Binder Type	MMA	
Colour	Clear	
Appearance	Smooth	
Comp. A	Name:	PLASTISEAL MMA Ceramic & Metal Primer Comp. A
	Density (Kg/ Litre):	1 ± 0.05
	Volume Solids:	100%
	Pack Size:	4 & 18 Kg
Comp. B	Name:	PLASTILINE® MMA BP 50 Hardening Powder
	Pack Size:	30 gm, 80gm, 100 gm & 700 gm
Mixed	Density (Kg/ Litre):	1 ± 0.05
	Volume Solids:	100%
	Mixing Ratio:	Note special mixing instructions in the application guide below.
Diluent	Supplied ready for use (Do not thin)	
Recommended WFT	400 – 800µm (Wet Film Thickness)	
Recommended DFT	400 – 800µm (Dry Film Thickness)	
Spreading Rate	• 1.25 – 2.5 m²/ Litre per coat, allowance should be made for site application losses & surface profile • 0.400 – 0.800 Kg/ m² per coat, allowance should be made for site application losses & surface profile	
Number of Coats	1	
Method of Application	Squeegees & rollers	

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Storage	Store out of direct sunlight in dry conditions between 15˚C and 25 ˚C
Shelf Life	12 months when stored as recommended in original un-opened containers

Important Information:

- Always consider a test patch to check suitability & adhesion.
- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the coating application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of the coating.
- No direct sunlight during application to avoid uneven curing.
- Surface should always be 3˚C above the dew point.
- Don't work from the bucket, empty entire contents.
- Not over-coatable with Epoxies.

Surface Preparation:

Always refer to document **"Analysis & Preparation of Substrate".** Good ventilation of rooms during processing guarantees good curing results.

In general, the following guidelines for preparation should be adhered to

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Metal surfaces should be free of rust, mill scale and loose debris, mechanically abrade the surface prior to application.

Application:

<table>
<tr><td>Mixing</td><td colspan="3">When opening the container, you will notice a clear layer on the surface of the resin. This is paraffin, it must be well incorporated by electrical mixer prior to addition of PLASTILINE® MMA BP Hardening Powder (50% dibenzoyl peroxide). After adding hardening powder, mix thoroughly for 1 minute.</td></tr>
<tr><td>Application Tools</td><td colspan="3">Squeegees & rollers</td></tr>
<tr><td rowspan="6">Application</td><td colspan="3">Application</td></tr>
<tr><td>Spreading Rate</td><td colspan="2">• 1.25 – 2.5 m²/ Litre per coat, allowance should be made for site application losses & surface profile
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<tr><td>Recommended WFT (per coat)</td><td>Min 400µm</td><td>Max 800µm</td></tr>
<tr><td>Recommended DFT (per coat)</td><td>Min 400µm</td><td>Max 800µm</td></tr>
<tr><td>Number of Coats</td><td colspan="2">1</td></tr>
<tr><td colspan="3">Extra Information:
Mixed PLASTISEAL® MMA Ceramic & Metal Primer must be poured onto the surface and spread with squeegees and rollers. It is advisable to sprinkle quartz sand 0.3 – 0.8 mm at a max rate of 200 gm/ m² (Silica Quartz SQ 2)</td></tr>
<tr><td>Diluent</td><td colspan="3">Supplied ready for use (Do not thin)</td></tr>
<tr><td>Work Stoppage</td><td colspan="3">Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units</td></tr>
<tr><td>Clean Up</td><td colspan="3">Clean all equipment immediately after use with Solvent EA or Acetone. Work strictly in accordance with the specified pot life of the material.</td></tr>
</table>

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Pot Life & Hardening Times at Different Temperatures:

Temperature [°C] **)	Hardener [% by wt.] *)	Hardener to add for each 4 Kg container	Pot Life [min]	Hardening Time [min]
5 – 10	5.0	200 gm	approx. 23	approx. 55
10 – 15	4.0	160 gm	approx. 18	approx. 45
15 – 20	3.0	120 gm	approx. 15	approx. 35
20 – 30	2.0	80 gm	approx. 15	approx. 30
> 30	1.0	40 gm	approx. 16	approx. 30

*) Hardener quantity calculated on net weight of PLASTISEAL® MMA Ceramic & Metal Primer Resin
**) Temperature statements refer to resin, floor, and air-temperature.
Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection & skin protection.
- Apply in well-ventilated areas

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