

# BG Coatings **Datasheet**



## METAL MATE 1490 QD TOP COAT – RAPID DRY ENAMEL

PRODUCT CODE: SPET - SERIES

TECHNICAL DATA SHEET NO: SPET-2

DATE: FEBRUARY 2024

THIS SUPERSEDES ALL PREVIOUS PUBLICATIONS

<b>PRODUCT DESCRIPTION</b>	Metal Mate 1490 Enamel is a general purpose fast drying high gloss enamel that provides good protection in exterior situations and most industrial applications.	
<b>INTENDED USES</b>	It is the ideal coating for use in the following applications: <ul style="list-style-type: none"><li>• General Industrial use.</li><li>• Metal implements.</li><li>• Implements and machinery.</li><li>• Agricultural machinery.</li><li>• Trailers.</li><li>• Storage drums.</li><li>• Garbage disposal containers.</li></ul>	
<b>FEATURES &amp; BENEFITS</b>	<ul style="list-style-type: none"><li>• Designed to provide a hard wearing gloss enamel finish.</li><li>• Easy to apply.</li><li>• High Gloss.</li><li>• Single pack.</li></ul>	
<b>PRODUCT INFORMATION</b>	Appearance	Gloss.
	Colour	White, Black and AS2700 standard colours. - Custom colours can be matched upon request.
	Generic type	Modified Alkyd.
	Volume Solids	≈ 31%
	S G	≈ 1,040 (Metal Mate 1490 - White)
	Flash point	26°C
	Calculated Max VOC	<600 g/ℓ
<b>APPLICATION DETAILS</b>	Mixing	Mix well with a power agitator until completely homogeneous. Remix thoroughly before application.
	Method	<u>Conventional Spray, Pressure Pot:</u> Recommended nozzle orifice: 1.4 - 1.8 mm. Pot Pressure: 70 - 100 kPa (10 - 15 p.s.i.) Gun Pressure: 380 - 410 kPa (55 - 60 p.s.i.) Thin with BG Coatings Metal Mate Multi Purpose Thinner to assist with ease of application if required. <u>Airless Spray:</u> Recommended tip size: 13 thou (0.33 mm) Nozzle Pressure (minimum): 12 MPa (1700 p.s.i.) Thin with BG Coatings Metal Mate Multi Purpose Thinner to assist with ease of application if required. <u>Brush:</u> Recommended for touch up and small areas only. <u>Roller:</u> Not recommended.

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Thinning  
Cleaning  
Substrate

SPES - BG Coatings Metal Mate Multi Purpose Thinner.  
SPES - BG Coatings Metal Mate Multi Purpose Thinner.  
Suitably prepared surfaces.

Application  
Environment

Surface Temperature	Ambient Temperature	Relative Humidity
Min: 10 °C	Min: 10 °C	Min: 10%
Max: 40 °C	Max: 40 °C	Max: 85 %
Or minimum 3 °C above dew point.		

Drying time  
@ 25°C and 50% R.H.

Touch dry	To Handle	Hard Dry
10 – 15 minutes	2 – 3 hours	8 hours

<b>Recoat:</b> 1 - 2 hours, or after 24 hours.
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Full cure: 7 Days.

### RECOMMENDED FILM THICKNESS PER COAT

	Minimum	Maximum	Typical
Dry film thickness - microns	40	50	45
Wet film thickness - microns	129	161	145
Theoretical spreading rate - m <sup>2</sup> /l	7.75	6.20	6.89

- Apply sufficient coats to obtain desired surface finish.

To control correct film thickness, it is recommended to measure the wet film thickness continuously during application using a wet film thickness measurement comb.

### PERFORMANCE PROPERTIES

Temperature resistance: Up to 90°C dry heat.

Weatherability : Fair/ Good.

Abrasion resistance : Good.

Solvent resistance : Moderate.

Chemical resistance : Moderate; not resistant to strong acids or alkalis.

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### TYPICAL SPECIFICATIONS / SURFACE PREPERATION

- Optimum coating performance will be obtained upon correct and thorough surface preparation.

Surface	Preparation	System	Dry Film Build
Steel	Power tool clean AS1627.2 St3 Abrasive blast AS1627.4 Sa 2½	1 <sup>st</sup> Coat Metal Mate 1340 Primer 2 <sup>nd</sup> Coat Metal Mate 1490 Top Coat	45 - 50µm 80 - 100µm *
Galvanised Steel	Degrease and abrade surfaces with 3M Scotchbrite® pad.	1 <sup>st</sup> Coat Metal Mate 1340 Primer 2 <sup>nd</sup> Coat Metal Mate 1390 Top Coat	45 - 50µm 80 - 100µm *
Previously painted surfaces	Sand with P220 - 240 grit sand paper.	Coat Metal Mate 1390 Top Coat	80 - 100µm *

\* Note: two coats at 40 – 50 µm DFT per coat recommended.

Abrasive blast cleaned surfaces must be primed within 4 hours.

Previously painted surfaces must be intact and in sound condition. Test adhesion of the existing coating by standard cross hatch method.

- If the coating fails it should be removed.
  - High-pressure water wash at 8.3 - 10.3 MPa (1,200 - 1,500 p.s.i.) to remove chalk and dust. Abrade surface to provide a good key for the new coating to bond.
- Refer to Metal Mate 1340 QD Primer Technical data sheet which supports the system.

### SAFETY PRE-CAUTIONS

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using the product.

#### Storage:

Store as required for a flammable liquid Class 3 in a bunded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.

#### Handling:

As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 must be worn while handling. Always wash hands before smoking, eating, drinking or using the toilet.

#### During application:

Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear combined organic vapour/particulate respirator. Users must always comply with their respective State Spray Painting Regulations at all times.

#### Flammability:

This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO2 or dry chemical powder. On burning will emit toxic fumes.

#### Annex:

Always use appropriate dust masks whilst sanding this product.

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### **STORAGE AND PACKING**

Shelf Life: 12 months at 25°C - from date of manufacture. Subject to inspection thereafter.

Store in dry conditions out of direct sunlight away from source of heat or ignition. Store at temperature between 5 and 35°C

### **PACK SIZE**

Single pack:

Available in 4 lt. and 20 lt. cans.

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### **DISCLAIMER:**

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

**N.B.** Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

### **MANUFACTURED BY BG COATINGS**

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