

BG Coatings **Datasheet**



METAL MATE 1390 QD TOP COAT

PRODUCT CODE: SPET - SERIES

TECHNICAL DATA SHEET NO: SPET-1

DATE: SEPTEMBER 2021

THIS SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION	A premium quality single component acrylic modified alkyd, top coat.	
INTENDED USES	<p>As a finish coat system for protecting construction and mining heavy machinery, agricultural equipment, transportation vehicles, material handling equipment and lifting equipment, pumps, valves, gear units, scaffolding, fencing and many other components.</p> <p>It provides a high gloss with excellent gloss retention and UV stability.</p> <p>It can be applied to all surfaces that require a high gloss single pack durable finish once suitably primed.</p> <p>It is an ideal coating which is designed to fit the requirements in the following segments of the industry:</p> <ul style="list-style-type: none">• Structural steel.• Agricultural equipment.• Mining equipment.• Heavy machinery and plant equipment.• Metal and farm implements.• Tractors and trailers.• Cranes and Harvesters.• Truck and Bus bodies.	
FEATURES & BENEFITS	<ul style="list-style-type: none">• Easy to apply.• Excellent levelling properties.• Fast through dry properties.• Excellent exterior durability.• Abrasion resistant and hard wearing.• Single pack.	
PRODUCT INFORMATION	Appearance	Gloss.
	Colour	White, Black and AS2700 standard colours. - Black is also available as a Satin or Matt finish.
	Generic type	Modified Alkyd.
	Volume Solids	38 ± 2%
	S G	≈ 1,067 (Metal Mate 1380 - QD White)
	Flash point	4°C
	Calculated Max VOC	<520 g/ℓ
APPLICATION DETAILS	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 up to 25% BG Coatings Metal Mate Multi Purpose Thinner to assist with ease of application.

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Airless Spray:

Recommended tip size: 13 thou (0.33 mm)

Nozzle Pressure (minimum): 12 MPa (1700 p.s.i.)

Thin with up to 15% BG Coatings Metal Mate Multi Purpose Thinner to assist with ease of application.

Brush: Recommended for touch up and small areas only.

Roller: Not recommended.

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.

Dry Film Thickness - µm	Touch dry	To Handle
25 Micron	20 - 30 minutes	4 hours
45 Micron	1 hour	6 Hours
Hard dry – Overnight.		

Recoat:
Within 4 hours or after 16 hours.

Full cure: 7 Days.

RECOMMENDED FILM THICKNESS PER COAT

	Minimum	Maximum	Typical
Dry film thickness - microns	25	45	30
Wet film thickness - microns	66	118	79
Theoretical spreading rate - m ² /l	15.2	8.4	12.7

- 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 120°C dry heat.

Gloss retention: Excellent.

Abrasion resistance: Very Good.

Solvent resistance: Moderate.

Chemical resistance: Acids - Not recommended where fumes, splash or spillage might occur.

Alkalis - Not recommended where fumes, splash or spillage might occur.

Flexibility: Very Good.

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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 st Coat Metal Mate 1340 Primer 2 nd Coat Metal Mate 1390 Top Coat	90 - 100µm 50 - 90µm *
Galvanised Steel	Degrease and abrade surfaces with 3M Scotchbrite® pad.	1 st Coat Metal Mate 1340 Primer 2 nd Coat Metal Mate 1390 Top Coat	90 - 100µm 50 - 90µm *
Zincalume®	Ensure that water sheets off, without breaking whilst rinsing.	1 st Coat Metal Mate 1340 Primer 2 nd Coat Metal Mate 1390 Top Coat	90 - 100µm 50 - 90µm *
Previously painted surfaces	Sand with P220 - 240 grit sand paper.	Coat Metal Mate 1390 QD Top	50 - 90µm *

* Note: two coats at 25 – 45 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.

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.

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