

TECHNICAL DATA SHEET

SILVER ZINC GUARD PROTECT

*A 2-in-1 Protect & Match High Performance Zinc Coating
for Long Lasting Corrosion Resistance*

Code 1481P



DESCRIPTION

Callington's Silver Zinc Guard Protect is a zinc coating containing metallic zinc, which protects and cleans steel in the same manner as hot dip galvanising does, i.e., by cathodic reaction.

Callington's Silver Zinc Guard Protect provides exceptional long-term protection against rust and corrosion and weathers to the same colour as normal galvanising.

Callington's Silver Zinc Guard Protect is ideal for touch ups and to hide welded joints on metal structures and is suitable on all types of ferrous (mild and heavy gauge steel) substrates.

FEATURES & BENEFITS

- Complies to ASTM A780/A780M* (65.0% zinc in dry film)
- 2-in-1 formula to protect & match in one easy step
- Superior adhesion properties, allowing for long term protection
- 98% zinc purity
- Quick drying, easy to use
- Ready to use aerosol with no additional mixing or additives required
- Available in 20L paint pail
- Can be used as a topcoat on Silver Zinc Guard Rich
- Compatible with Colourbond, Zinalume, DuraGal



APPLICATION

Callington Silver Zinc Guard Protect can be used in many applications such as fabrication, construction, over welding, bridges, fencing, structural, steel, hot dip deep repairs, boat and marine equipment, electrical installation equipment, air conditioning, heating systems, tanks, pipes, underground equipment, wrought iron, handrails, balustrading, and signposts.

SURFACE PREPARATION / DIRECTIONS FOR USE

1. The metal iron surface must be cleaned thoroughly and be free of any low surface tension modifiers such as dust, wax, grease, oils, and anti-rust additives.
2. Remove all traces of rust by wire brushing or mechanical means until a sound metal surface is achieved.
3. Wipe the surface clean with solvent using a rag to remove traces of iron filings that may have been generated during the sanding operation. Allow the surface to dry thoroughly.
4. Do not use a rust converter as this will lead to gassing and bubbling in the Silver Zinc coat due to the acid of the rust converter reacting with zinc dust and thus rendering it inactive.

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AEROSOL SPRAY APPLICATION

- The aerosol should be shaken well to ensure contents are thoroughly mixed before using. Correct mixing will ensure a smooth uniform coating of the product.
- To provide maximum surface protection the surface must be thoroughly prepared.
- For best results on abrasive blasting, remove mill scale and any other surface contamination such as rust surface. This should be prepared for AS1627.9 Class2.
- Apply in even smooth strokes. Applying several light coats is better than applying one heavy coat.
- After spraying, invert the can and press the nozzle, this clears the jet for a quick start on the next application.
- The average thickness is a double pass coating (2 coats) thickness will be an average of 54um.
- Coverage is approximately 1.2m² per can. Coverage is also dependant spraying technique.

NB: When using an aerosol, the applications achieved vary from person to person. The slower you move over an area when spraying/applying more product will be applied. The faster you move when spraying/applying less product will be applied.

PAINT APPLICATION

- To provide maximum surface protection the surface must be thoroughly prepared.
- For best results on abrasive blasting, remove mill scale and any other surface contamination such as rust surface. This should be prepared for AS1627.9 Class2.
- For light anti-corrosion applications, direct use as an underside paint, or for heavy anti-corrosion applications as a cold spray zinc base.
- Paint matching topcoat used.
- The recommended spray thickness is about 20-40um.
- If it is necessary to shorten the waiting time, it can be baked at 60-80° C for 30-60 minutes to speed up curing.
- Application methods include air spray, airless spray or direct brush.
- For air spray, stir well before use. Dilute paint in diluent using the ratio 10:3~5 (required). The interval between each spray is 5 minutes (25°C).
- For airless spray, no dilution is required. Stir well before use. The interval between each spray is 10 minutes (25°C).

Air spray		Airless spray	
Spray pressure	0.5 – 0.7 MPa	Viscosity	50 – 80 seconds
Nozzle diameter	1.5 – 1.8 mm	Spraying distance	15 – 25 cm
Spraying distance	15 – 25 cm	Thickness of each paint film	30 – 40 um
Thickness of each paint film	20 – 25 um	Construction temperature	5 – 40 °C
Construction temperature	5 – 40 °C	Relative humidity	25 – 75 %
Relative humidity	25 – 75 %		

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DRYING AND RECOATING

Callington's Silver Zinc Guard Protect will dry in 30 minutes and can be recoated after 1 hour. Allow for longer drying times during cold winter conditions. It is best to apply at temperatures in the range 15 - 30°C. Callington's Silver Zinc Guard Protect will fully cure within 1-2 days. It does not require a topcoat but can be over coated with acrylic or epoxy paint.

DURABILITY

When applied at 35 microns dry film thickness, Callington Silver Zinc Guard Protect will provide a minimum of 4 to 5 years of service on exterior exposure. Higher film thickness will prolong longevity. Recoating at intervals will serve to repair damaged areas and prolong the coating's life.

ORDERING INFORMATION

Product Code	Packaging	Units/Carton
1481P/400	400gram aerosol	12 units
1481P/51	20L Pail	-

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DANGER

Extremely flammable aerosol. Harmful if swallowed, in contact with skin or inhaled. Causes skin irritation and serious eye irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. Risk of explosion if heated under confinement.

PRECAUTION

Keep away from heat/ sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas.

FIRST AID

exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

STORAGE & DISPOSAL

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

WARRANTY – All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.

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