



SOLACOAT

TAKES THE HEAT OUT OF THE ENVIRONMENT

www.solacoat.com.au

TECHNICAL DATA SHEET FOR: SOLACOAT "QUICK-DRY CS PRIMER":

Solacoat Quick Dry Water-Based CS Primer is a novel water-based primer, based on acrylic resin and a zinc phosphate complex that has exceptional adhesion to both heavy & mild gauge steel, metal roofing & stainless-steel substrate, with excellent anti-corrosive properties. The Solacoat Quick Dry CS Primer may be top-coated with our water-based coatings. This New Coolshield Primer was developed especially for the "Electrical Transformer Market" where the manufacture of such transformers is manufactured from heavy gauge steel, but is also an excellent primer for all metal substrates.

Features

- Fast drying-touch dry in 30 minutes @ ambient temp of 20°C or above.
- Lead and zinc chromate free
- Excellent for use as a shop primer in prefabrication work
- An excellent primer on heavy gauge steel, aluminium, Stainless Steel, and good on zinc coated metals
- Good gloss holdout
- Can be top-coated with our conventional water-based coatings
- Low VOC.

Areas of Application

Suitable for application to Constructional Steel, steel rail tracks, sea containers, new and old metal roofs and walls, general shop work, tanks, pipes, cranes, stainless steel, agricultural parts, earthmoving equipment, structural steel, and production line priming. Normally overcoated with conventional air-drying, spraying finishes such as Insulation.

Typical Specifications

Surface	Preparation	System	Dry Film Thickness
Structural Steel	Abrasive blast clean to AS1627.4 Class 2	First Coat: QD CS Primer Top Coat: As mentioned above	40-50µm 60-75µm
Mild Steel	Remove rust, clean and degrease.	First Coat: QD CS Primer Top Coat: As mentioned above	40-50µm 60-75µm
Galvanised and zinc coated steel, Stainless Steel and aluminium	Clean and degrease. Smooth and polished aluminium may need abrading with nylon pad	First Coat: QD CS Primer Top Coat: As mentioned above	40-50µm 60-75µm

Please Note: Solacoat QD CS Primer applied at 40-50µm should be allowed to dry a minimum of 1 hour if substrate temp is below 15°C for top-coating with our water-based coatings.

Surface Preparation

Steel

Excellent performances will be achieved by abrasive blast cleaning to AS1627.47 Class 2 or equivalent. However, good results can be achieved in mild exposure conditions on power or hand tool cleaned surfaces to AS1627.2 or AS1627.7 or equivalent. Prime with Solacoat QD CS Primer to 40-50 microns dry film thickness.



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SOLACOAT QD CS PRIMER (Metal) Cont:

Mild & Heavy Gauge Steel

Remove light surface rust with a rust converter according to manufacturer's instructions or clean and degrease with a Wax and Grease Remover. Prime with Solacoat QD CS Primer to 40 - 50 microns.

Steel Railway Track

There is no need to remove any Surface Rust on the rail line, **except for Oil and Grease, which must be removed.**

Galvanised and Zinc Coated Steel, Aluminium, Stainless Steel and most non-ferrous metals.

Clean with Wax and Grease Remover. Allow to dry. Smooth polished aluminium may need to be lightly abraded with a nylon pad. Apply Solacoat QD CS Primer at 40 - 50 microns dry film thickness.

Mixing Instructions

Stir thoroughly until uniform consistency.

Application

Do not apply Solacoat QD CS Primer if substrate temp is below 15°C or above 85% relative humidity, unless in closed environment, where internal temp is above 15°C or above. If between 15°C-19°C, allow 1 hour before applying topcoat. Allow 1 hour between each topcoat. If ambient temp is 20°C+ Primer should be touch dry within 30 minutes, where you can then apply 1st topcoat, then 60 minutes later for 2nd topcoat.

Brush or Roller

Thinning not required, taking care not to over brush or over roll the coating.

Airless Spray

Thin approx. 5 - 10% with clean water. Tip orifice 0.013" to 0.015". Apply at 14 to 17 MPA atomising pressure. Apply two medium double-header coats to a dry film thickness of 40 - 50 microns.

Conventional Spray

Thin approx. 15%. Apply at air atomising pressure of 350 to 400kPa.

Thinner

Water

Cleaner

Initially water to remove the bulk of the material then use a final rise of methylated spirits or lacquer thinners. Alternatively use warm soapy water.

Approximate Coverage

Practical at 40 Micron DFT	Brush or roller	8-9.0m ² /L
	Airless spray	10.0m ² /L
	Conventional spray	9.0m ² /L



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SOLACOAT QD CS PRIMER (Metal) Cont:

Properties

Colour:	Light
Gloss:	Grey Low
Drying time:	Approximate air drying times at 20°C and 40 microns dry film thickness 30 minutes
Touch free:	60 minutes
Hard dry:	60 minutes if ambient temp is above 20°C+
Recoating Time:	These times are quoted for 20°C+, 50% relative humidity and reasonable air movement. Cold damp conditions with little or no air movement will increase the recoat times.
Solids:	By weight approximately 51% By volume approximately 40%
Weight per Litre:	Approximately 1.23kg.
Shelf life:	18 months when stored in original, unopened container and stored in cool, dry conditions above freezing and out of direct sunlight.
Flash Point:	Non-flammable.
Durability:	Good when top-coated.
Resistance Properties:	
Abrasion:	Good
Heat:	Up to 120°C
Solvent:	Moderate
Oil and Petrol:	Moderate.
Chemical:	Limited.

VOC

Solacoat QD CS Primer has a Volatile Organic Content (VOC) of less than 120 grams per litre.

Precautions

When applying in a confined space, use suitable respiratory protection. In common with other solutions Solacoat QD CS Primer should not be allowed to remain on the skin and normal hygiene standards should be observed when using this product.