

POW-R Shield® C.O.R.E.

Coat Over Rust Eradicator - Aluminum Coating

PRODUCT DATA SHEET



GENERAL PROPERTIES:

POW-R SHIELD - C.O.R.E. "Coat Over Rust Eradicator" is a specially engineered polymer line, designed to coat over and eradicate rust on weathered metal substrates. By bonding the rust to the metal, POW-R SHIELD - C.O.R.E. prevents any corrosive material from permeating through the coating onto the metal substrate causing the rust to spread while revitalizing the substrate and allowing the substrate to endure more years of useful protected life.

POW-R SHIELD - C.O.R.E. can be used as a primer or topcoat to extend the life of any type of equipment, heavy equipment, farm & implement equipment, snow plows, lawn care equipment, metal furniture, marine vessels or structures, HVAC and refrigeration units, pipes, off shore equipment, drilling equipment or any metal surfaces exposed to a corrosive environment or environment affected by rust.

POW-R SHIELD - C.O.R.E. can be used for maintenance applications in power plants, water treatment plants, pulp and paper mills and on underground pipes or structures.

KEY FEATURES:

- **Fast dry times**
- **Cures at low temperatures**
- **Exceptional barrier protection**
- **Can be applied in high humidity conditions**



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TYPICAL PROPERTIES:

Color	Aluminum
Gloss Level 60° Meter	70+ units
% Volume solids – No Accelerator	70%
VOC – No Accelerator	2.24 lbs/gal 268 gr/ltr
Density @ 68°F / 20°C	9.60 lbs/gal 1.15 kg/ltr
Dry Film Thickness	2.0 – 2.8 mils
Theoretical coverage @ DFT of 2 mils	563 Sq. Ft. / Gal
Drying Time – to Touch (No Accelerator)	2 Hours
Drying Time – to Touch (w/ Accelerator)	30 Minutes
Drying Time – to Topcoat (No Accelerator)	3 Hours Minimum / 24 Hours Maximum
Drying Time – to Topcoat (w/ Accelerator)	40 Min Minimum / 12 Hours Maximum
Drying Time – to Handle (No Accelerator)	3 Hours
Drying Time – to Handle (w/ Accelerator)	1 Hour
Reduction Solvent	Generally not required

NOTE: After maximum drying time has expired scuffing may be required to obtain proper topcoat adhesion.

NOTE: During drying and curing the higher the relative humidity the faster and harder the product will cure. Because the POW-RSHIELD – C.O.R.E. line are moisture sensitive, any open container or exposed product will become unusable within an hour. Tightly seal any unused portion of the product being careful not to drip product into rim of the can. The cured coating gets very hard and will seal the paint lid to the can.

PERFORMANCE:

Salt Spray ASTM B-117	3000 Hours
Impact (Direct and Indirect) ASTM D-2794	80 in Lbs
Flexibility ASTM D-5222 (Conical Mandrell)	No Cracking – one-inch
Chemical Resistance	50 Double MEK Rubs
Acid Resistance	Spills – Good Fumes – Excellent
Chlorine Resistance	Spills – Good Fumes – Excellent
QUV ASTM D-4587	5000+ Hours



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INSTRUCTIONS:

Mixture - POW-R SHIELD – C.O.R.E. can be used as a one component product. It can be accelerated with POW-R SHIELD Accelerator PS-AC2 at a ratio of 4 parts or 8 parts POW-R SHIELD – C.O.R.E. to 1 part PS-AD2 to decrease the dry time to 1 hour.

Mixing – Do Not Shake! Open the container carefully in case of pressure buildup. Stir with stick, if entire contents of container are not going to be used; then using small cups, dip out the amount of product needed and pour it into a separate container. Seal unused portion.

Thinning – POW-R SHIELD – C.O.R.E. is provided ready to spray using airless or air assisted spray equipment. If spraying with air spray equipment, thin as needed with xylene to improve flow.

Pot Life – At 68 °F / 20 °C 8 hours

Application Conditions – In order to obtain the right film formation, the temperature should be at least 45 °F. The temperature of the substrate should be at least 15 °F above dew point. Keep application area well ventilated during application and drying. Proper air movement is essential to achieve good drying properties. Be sure to wear proper respirator equipment when applying this product (Observe SDS Cautions).

Methods of Application – POW-R SHIELD – C.O.R.E. can be applied by conventional air or airless spray equipment and by brush or roller. Apply at 3.0 to 4.0 mils wet film thickness which will yield 2.0 to 2.5 mils dry film thickness.

	Air Spray or HVLP	Airless or Air Assist Airless
Thinner	Xylene	Not Recommended
Quantity	Up to 25% By Volume	N/A
Nozzle or Tip	1.2 to 1.4	413 to 515
Fluid Pressure	20 – 40 psi	1500 – 3000
Air Pressure	50 – 80 lbs psi	50 lbs
Dry Film Thickness	2.5 to 4.0 mils	2.5 to 4.0 mils



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Over
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SURFACE PREPARATION:

New or Unfinished Surfaces (Ferrous Metals) – For best performance, application to abrasive blasted surface is recommended. “Commercial Blast Cleaning” (SSPC-SP6) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce an average profile depth of 1.5 mils minimum. Do not reuse abrasive media remove blasting dust and grit from surfaces before painting. Blasted surfaces should be coated within 8 hours after blasting or before rusting or other contamination of the surface occurs. If blasting is not possible, use Hand or Power Tool Cleaning (SSPC-SP2 or SSPC-SP3).

Galvanized Metal – Remove oil by pressure washing with a cleaning soap solution.

Aluminum – Etching with a phosphoric acid pretreatment solution is recommended for maximum adhesion. Clean all contamination by scrubbing with a cleaning soap solution. Rinse clean with water and allow to dry.

Previously Painted or Rusted Surfaces – Repair all damaged areas. Remove gloss from previous paint by sanding or “Brush Blasting” (SSPC-SP7) remove loose rust, heavy chalk and loose or peeling paint by “Hand or Power Cleaning” (SSPC-SP2 or SSPC-SP3). If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (5 sqft minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

Note: POW-R SHIELD – C.O.R.E. needs a profile to be affective, scuff any slick surface.

SAFETY

POW-R SHIELD – C.O.R.E. contains chemicals that are harmful if inhaled, absorbed or swallowed. Observe SDS cautions and wear proper respirators, gloves and protective clothing when handling or spraying these products.

Labeling - In accordance with EU directions 67/548/EEG and in accordance with directives on hazardous materials. Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

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LIMITED WARRANTY:

This product, all information and instructions contained in the data sheet is intended for use by skilled, experienced industrial applicators. Since Access-Able Technologies, Inc. has no control over storage, handling, use or application of its products, it is not liable for any unsatisfactory results obtained, injury and incidental or consequential damages of any nature what so ever. Access-Able Technologies, Inc. warrants that all products listed in this data sheet conform to its Quality Standards Statement, and is only obligated to replace its products if determined by Access-Able Technologies, Inc. to be defective. Contact Access-Able Technologies, Inc. for complete warranty information.