



RUST PROTECT PRODUCT DATA SHEET

OVERVIEW

DryWired® Rust Protect is a dual-component direct-to-metal (DTM) coating that protects a wide variety of ferrous materials, including hard rust metal surfaces from continued deterioration. Rust Protect dries smooth, creating a strong bond between rusted metal surfaces and application-specific top coats. Rust Protect also provides a unique method to bond metal substrates to concrete. Rust protect is environmentally friendly due to its use of recycled industrial material and extremely low VOC level.

USES	FEATURES
<ul style="list-style-type: none"> ▶ Concrete encased metal ▶ Metal stairs and ramps ▶ Corrosion Under Insulation (CUI) ▶ Exhaust systems ▶ Corrugated metal roofs ▶ Rebar ▶ Steel structures ▶ Boilers & Furnaces ▶ Metal doors ▶ Pipe exteriors 	<ul style="list-style-type: none"> ▶ 25% cementitious yet forms strong bonds to nearly all metal surfaces ▶ Adhesion is maintained on surfaces with rust ▶ Maintains flexibility, bending as much as 90 degrees without cracking or lifting when properly applied ▶ Can be applied to “live” surfaces that expand and contract due to internal pressure changes or external influences ▶ No abrasive blasting or grinding is required prior to application- power washing and degreasing is adequate. ▶ Low VOC ▶ Approved for continued warranty coverage for use with Sherman Williams and Carboline top coats ▶ Saves maintenance costs and the need to replace materials ▶ Extreme temperature resistance (-80°f to +500°f) ▶ Easy applicaiton and clean-up ▶ Odorless

PROPERTIES

NVW (%)	40
pH	7.5
Visc [cps]	75
MFFT [°C]	0
Emulsion Solvent (g/L)	35
Rust Protect Solvent (g/L)	17
Elongation at break (%)	300
Koenig Hardness [s]	80

All statements, technical information and recommendations contained in this document are based upon tests or experience that DryWired believes are reliable. However, many factors beyond DryWired's control can affect the use and performance of a DryWired product in a particular application, including the conditions under which the product is stored or used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired product to determine whether it is fit for a particular purpose and suitable for the user's method of application. No warranty or condition, expressed or implied, is given regarding the accuracy of the statements, technical information or recommendations contained in this document. Except to the extent prohibited by law, DryWired will not be liable for any losses or damages arising in any way from the DryWired product including, without limitation, any direct, indirect, special, incidental or consequential damages, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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ASTM D4541 - Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers

SAMPLE	CURE TIME	BOND STRENGTH (PSI)	BOND STRENGTH (KG/CM2)	BOND STRENGTH (BAR)	MODE OF FAILURE (% OF COATING)
A	28 days	1,047	73.6	72.2	95%
B	21 days	875	61.5	60.3	50%
C	14 days	722	50.8	49.8	40%
D	14 days	693	48.7	47.8	80%
E	5 days	289	20.3	19.9	35%

DryWired Rust Protect exceeding industry standards of 200psi within 5 days. At a cure time of 28 days, a pull strength of over 1000psi was reached.

TEST	TEST TYPE	COATING	RESULT/RATING
ISO 1519:2002	Bend	Rust Protect	Cracking, no detachment
ASTM B117-11 (96 hours)	Salt Fog	Rust Protect + Top Coat	9
ASTM B117-11 (96 hours)	Salt Fog	Rust Protect + No Top Coat	8 and 9
ASTM B117-11 (192 hours)	Salt Fog	Rust Protect + No Top Coat	7 and 8
ASTM B117-11 (96 hours)	Salt Fog	Rust Protect + Top Coat	10
ASTM B117-11 (192 hours)	Salt Fog	Rust Protect + Top Coat	9
ASTM D1654 (96 hours)	Salt Fog (scribe)	Rust Protect + No Top Coat	9
ASTM D1654 (192 hours)	Salt Fog (scribe)	Rust Protect + No Top Coat	9
ASTM B117-D1654 (96 hours)	Salt Spray (scribe)	Rust Protect + Top Coat	9
ASTM B117-D1654 (192 hours)	Salt Spray (scribe)	Rust Protect + Top Coat	9
ASTM D3359	Pull	Rust Protect + No Top Coat	5B - no paint removed
ASTM D3359	Pull	Rust Protect + Top Coat	5B - no paint removed
ASTM D4060	Abrasion	Rust Protect + No Top Coat	113.7 - 118.4mg loss
ASTM D4060	Abrasion	Rust Protect + Top Coat	42.0mg loss

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