

PROTEC-COAT C5

RACKS OPTIONAL

Facts & Figures
ISO 12944-6 Class C5

PROTEC-COAT C5

OPTIONAL

ISO 12944-6

Application

Our battery racks are designed to be completely insulated from the battery and the place of installation according to DIN EN IEC 62485-2:2019-04.

This standard specifies, "Battery stands or battery cabinets made from metal shall either be connected to the protective conductor or insulated from the battery and the place of installation. This insulation shall correspond to the conditions for protection by insulation according to IEC 60364-4-41. Other simultaneously accessible conductive parts, i.e. mural ducts, shall be out of reach. For requirement on creepage distances and clearances, see IEC 60664-1, using a value of 4000V for the high voltage impulse test.

Certain applications require a higher class of corrosion resistance which is not unfeasible under unfavorable circumstances. **Our new PROTEC-COAT C5 fulfills the requirements according to ISO 12944-6 corrosiveness category C5 and is the optimum choice for applications in areas with higher humidity and coastal regions as well as offshore environments.**

PROTEC-COAT C5 has excellent resistance against sulphuric acid and potassium hydroxide.

Our special coating is distinguished by the colour anthracite grey RAL 7016.

STANDARD ISO 12944-6

Paint systems and laboratory performance testing of paint systems

Corrosion protection of steel structures by protective paint systems – Part 6: Laboratory performance testing of paint systems

The aim of ISO 12944-6 is to define standardized laboratory tests used to evaluate the performance and durability of protective paint systems for steel structures exposed to corrosive environments.

These tests simulate the environmental stresses a coated steel surface might face in real-world conditions (e.g., humidity, salt exposure, UV radiation) to determine whether a coating system is suitable and durable for a given corrosion category.

TEST CERTIFICATE

	
iLF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH	
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TEST CERTIFICATE	
Test report No.:	120783.1
Producer:	
	Switzerland
Coating system:	Carbon steel, grit blasted, no primer or chemical treatment Single layer of  ® Thermoplastic Powder 
Test specification:	<u>ISO 12944-6</u> , Corrosion protection of steel structure by protective paint systems, Part 6: Laboratory performance test methods
Test methods:	Pull-off test according to ISO 4624 Salt spray test according to ISO 9227 (1440h) Resistance to humidity according to DIN EN ISO 6270-1 (720h) Resistance to liquids according to ISO 2812-2 (3000h)
The coating system has passed the testing according to ISO 12944-6, corrosiveness category C5-M and Im 3 – term of protection: high.	
04th February 2014	
iLF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH	
	
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