

BC Paint System: Upgrade & Standardization

BERNARD CONTROLS, global electric actuator specialist, improves its paint system with standardization of polyurethane single coat on all its product ranges and new codification system fully complying with ISO 12944 Standard.



ISO12944 is an international Standard which deals with Corrosion Protection of Steel Structures by protective paint systems. This Standard delivers key criteria to select the appropriate level of protection according to customer's application: first the classification of corrosive atmospheric environments, then the durability level of the coating system. While the first criterion is used to select the appropriate painting, the second one indicates the estimated time before first maintenance on painting. According to ISO12944, atmospheric environments are classified into six atmospheric-corrosivity categories (from C1 to C5-M). On the other hand, there are three ranges of durability (low/medium/high) - see tables below for detailed information on these two criteria.

In order to ease the correspondence between BC painting and standard customer specifications, BERNARD CONTROLS replaces its former PTLB paint system by a new one named Bernard Controls Paint Specifications (BCPS), which fully comply with ISO12944 Standard.

ISO 12944 Standard - Categories of atmospheric-corrosivity

Category of corrosivity		Examples of typical environments	
		Inside	Outside
C1	Very low	Heated buildings with very low clean atmospheres: e.g. offices, shops, schools, hotels.	-
C2	Low	Unheated buildings where condensation may occur: e.g. depots, sports hall.	Atmospheres with low level of pollution. Mostly rural areas.
C3	Medium	Production rooms with high humidity and some air pollution: e.g. food-processing plants, laundries, breweries, dairies.	Urban and industrial atmospheres, moderate sulfur dioxide pollution. Coastal areas with low salinity.
C4	High	Chemical plants, swimming pools, coastal ship- and boatyards.	Industrial areas and coastal areas with moderate salinity.
C5-I	Very High (Industrial)	Buildings or areas with almost permanent condensation and with high pollution.	Industrial areas with high humidity and aggressive atmosphere.
C5-M	Very High (Marine)	Buildings or areas with almost permanent condensation and with high pollution.	Coastal and offshore areas with high salinity.

ISO 12944 Standard - Classification of paint durability

Durability	
Low	2-5 years
Medium	5-15 years
High	>15 years

Moreover, as from November 1st 2015, BERNARD CONTROLS will standardize polyurethane single coat painting with high durability level on all standard product ranges. Polyurethane coating was already implemented on many product ranges, especially INTELLI+® quarter-turn and multi-turn actuators. However quarter-turn SQ and multi-turn ASM without INTELLI+® controls will be upgraded with higher grade polyurethane painting.



As part of its Strong Customer Support commitment, BERNARD CONTROLS also offer many other options for the painting of its actuators according to customers' requirements (paint type, color...). For instance, while polyurethane coating is not suitable for over coating, BC still offer BCPS-C2-02 paint specification (single epoxy coat) as an option on BC PREMIUM ranges for over coating after purchase. Paint specification per product range is detailed below. Nonetheless, do not hesitate to specify your needs to our sales teams or discuss with them to identify the appropriate protection for your application.

Bernard Controls Paint Specifications (BCPS)

Corrosivity category	New BC Spec.	Former Spec.	Top coat	Nb of coat(s)	Comment for selection	Product range
C2	BCPS-C2-01	PTLB 26/27	Polyurethane	1 coat	BC Standard for C2	Standard for FIRST BC
	BCPS-C2-02	PTLB 01/02	Epoxy	1 coat	For over coating after purchasing	Option for BC PREMIUM
C3	BCPS-C3-01	PTLB 16/17	Polyurethane	1 coat	BC Standard for C3	Standard for BC PREMIUM
C4	BCPS-C4-01*	PTLB 18/19	Polyurethane	2 coats	BC Standard for C4	Option for BC PREMIUM
C5-M	BCPS-C5M-01**	PTLB 20/21	Polyurethane	3 coats	BC Standard for C5-M	Option for BC PREMIUM

This table does not display customer specific paint specifications.