

# C5mid and CX Paint Systems

The introduction of these new paint systems is an extension of our already available paint systems. The new high performance paint systems are suitable for the following corrosivity categories:

C5-very high and

**CX-extreme** 

Both according to ISO 12944-2:2018.

We wish to offer our customers a complete and reliable solution for electric motor coating for the most demanding industrial, marine and offshore environments. The main objective is to significantly enhance the surface protection of cast iron motors (not suitable for aluminum motors) to increase the resistance against corrosion and to reduce the service and maintenance costs.

	Corrosivity categories acc	to ISO 12944-2
Corrosivity	Examples of typ	ical environments
category	Outdoor	Indoor
(very high)		Buildings or areas with almost permanent condensation and with high pollution.
CX (extreme)		Industrial areas with extreme humidity and aggressive atmosphere.

#### **Durability of the paint system:**

The ISO 12944-1 standard defines a number of durability ranges.

The paint system **C5mid** was developed to achieve **durability "Medium"** with expectancy of the first major coating failure between **7 and 15 years** from the date of installation.

The paint system **CX** is intended for extreme environment and meets **durability "High"** with expectancy of the first major coating failure between **15 and 25 years** from the date of installation.

The existing option code **S04** (**C5-offshore** special paint system) fulfills **durability "Low"**, with expectancy of the first major coating failure < **7 years**.

The defined **durability** is the expected life of the protective paint system until first major maintenance painting is necessary. It is to help the user to set up an appropriate maintenance plan.

	Durability of the protective paint system according to ISO 12944-1
Low	up to 7 years
Medium	from 7 up to 15 years
High	from 15 up to 25 years
Very High	more than 25 years





#### **Option code**

**S04** = Special paint finish **C5-offshore** with "Low" durability.

**S08** = Special paint finish **C5mid** with "**Medium"** durability. (New!)

**S09** = Special paint finish **CX-offshore** with "High" durability. (New!)

All suitable for cast iron motors only because the process includes sandblasting and zinc galvanizing, which cannot be done on aluminum motors.

### **Migration Strategy**

The latest revision of **ISO 12944:2018** is superseding the old **ISO 12944:1998** standard. The corrosion categories **C1**, **C2 and C3** remain the same. These paint systems (option codes S00, S01, S02, S03) remain unchanged.

The formerly known corrosion categories **C5-I "Industrial"** and **C5-M "Marine"** have been replaced with the category **C5**.

The marine paint system **C4** (option code S03) remains unchanged.

The C5-offshore paint system with durability "Low" (Option Code S04) remains unchanged.

For **C5mid** paint system with **durability "Medium"** please select Option Code S08.

The corrosion category **CX** is new and beyond all categories listed in the old standard. For this paint system please select Option Code S09.

Here is the summary:

Old Standard ISO 1	2944-2: 1998	New Standard ISC	12944-2: 2018	Option
Corrosion Category	Durability	<b>Corrosion Category</b>	Durability	Code
<b>C2</b> (low)	Low	C2 (Low)	Low	without
C3 (medium)	Low	C3 (Medium)	Low	<b>S02</b>
<b>C4</b> (high)	Low	C4 (High)	Low	<b>S</b> 03
C5-I (very high – Industrial) C5-M (very high – Marine)	Low	C5 (Very High)	Low	S04
C5-I, C5-M	Medium	C5 (Very High)	Medium	S08
		CX (Extreme)	High	<b>S</b> 09

The new paint systems are equivalent to 'Norway Petroleum Industry' paint systems referred to as "Norsok" paint systems.

Option S08 – The C5mid paint system is an equivalent of 'Norsok 1B'.

Option S09 – The CX paint system is an equivalent of 'Norsok 2B'.

## Test Reports of surface treatment and painting operations

**Option S08** – The Paint Test Report will be provided upon request.

**Option S09** – The Paint Test Report will be provided automatically with the motor.

#### **ATEX / IECEx Motors**

The paint system of Hazardous Area motors must comply with IEC 60079-0 article 7.4 for explosion Group II and Group III. The paint systems **C5mid** and **CX** have been developed with conductive paints and accredited at certification laboratories for use in hazardous areas without restrictions. Therefore, the paint systems **C5mid** and **CX** with total paint thickness of more than 200µm can be used even in explosive atmospheres of gas group IIC.



# **Technical Overview**

Paint system	C5mid	CX
Option code	S08	S09
Corrosivity category	C5	CX
Corrosivity Category	Very High	Extreme
Durability	Medium	High
Durability	7 to 15 years	15 to 25 years
Primer - Thermal sprayed ZnAl15	50 μm	100µm
Intermediate coat (epoxy resin)	120 μm	240µm
Toncoat	Polysiloxan <sup>1)</sup>	Polysiloxan <sup>1)</sup>
Topcoat	60 μm	60 μm
Total number of coats	4	5
Min. thickness (final dry)	230µm	400μm
Surface Treatment Report	Upon request	
UV-resistance (S06)		□ <sup>1)</sup>
Stainless steel fasteners (H06)		
Stainless steel rating plate (M11)		
Metal fan cover (F74)	✓	
Metal fan (F76)	✓	
Paint finish in RAL colours (Y53, Y56, Y66)	✓	✓
Internal painting (S05)	✓	<b>√</b>
Shaft made of stainless steel (L06)	√	<b>√</b>

Brakes and encoders are suitable for corrosive categories as defined by their manufacturers; however, they are generally <u>not</u> suitable for categories **C5mid** and **CX**.

✓ available as an option□ included as standard

Attached is sample Paint Test Report

<sup>&</sup>lt;sup>1)</sup> Polysiloxan is free of isocyanates, as required by a number of offshore companies. Not all color shades are available due to the requirement for paint conductivity.

<b>Paint</b>	report	for Cx	painting	system
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No rust on surface				
No surface defect				
Welds are continual				
No porosity, pinholes				
No blistering				
No wrinkles, runs				
No wrinkles				
No brush hair				
No cracking				
All areas coated				
Right shade				
No flacking				
No contamination				
Date of inspection				

	Control of	surface cleanne	ss – Arcotest 38	BmN/m
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DE endshield				
Terminal box				
Terminal cover				
Sheet-metal cover				
Date of inspection				
Used instrument				
Expiration				

	Dust p	resence – ISO 8	502-3 Max. class	s 2
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ring coated delegation of painting in accordance with  Top coat name : Top coat number:  Exp. Date RAL  Top coat hardner name : Top coat hardner number:  Exp. Date RAL  Surface temperature – dT >3°C; Humidity max 85%	No cracking All areas coated Right shade No flacking No contamination Date of inspection  Top coat - Preparation  Batch number  Top coat h Batch number  Control The painting prepared in accordance with datasheet	op coat Exp. Date	name	: To		number	:		
coated de d	All areas coated Right shade No flacking No contamination Date of inspection  Top coat - Preparation  Batch number  Top coat h Batch number  Control The painting prepared in accordance with datasheet	op coat Exp. Date	name	: To		number	·		
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Exp. Date   RAL	Batch Enumber Control The painting prepared in accordance with datasheet		name :	· т					
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reparation  Time of preparation  Surface temperature – dT >3°C; Humidity max 85%	accordance with datasheet	Yes		N/A		No	Com	ment	
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Surface temperature – dT >3°C; Humidity max 85%									
Surface temperature – dT >3°C; Humidity max 85%	Date of preparation			Time	of				
Yes N/A No Comment				– dT :		umidity			
		N/A			No		Comr	nent	
	•							-	
		Ta:					Humic	dity:	
Ts: Dew Humidity:					point:				
point:									
point:									
point:  point:	Calibration valid								
	Surface Area Yes Random spot	N/A		prepa	>3°C; H No  Dew	umidity	Comr	nent	
_		Ta:					Humio	dity:	
					hoiut:				
point:	-								
point:									
point:  point:	Calibration valid								

Date		•	End aplication	End aplication	on
	Time		Date	Time	
	Paint	inspection – th	nickness measurii	ng	
	<b>M</b> i	inimum 400μ; I	Maximum 1010μ		
Area	Min. [μ]	Avg. [μ]		Comment	
Frame 1					
Frame 2					
Frame 3					
DE endshield 1					
DE endshield 2					
DE endshield 3					
Terminal box 1					
Terminal box 2					
Terminal box 3					
Terminal cover 1					
Terminal cover 2	1				
Terminal cover 3					
Sheet-metal cover 1	1				
Sheet-metal cover 2					
Sheet-metal cover 3					
Date of inspection				<u> </u>	
Used instrument					
Calibration valid					
Control	Yes	N/A	No	Comment	
No porosity, pinholes					
No blistering					
No wrinkles, runs					
No wrinkles No brush hair					
No cracking					
No cracking All areas coated	_				
No cracking All areas coated Right shade					
No cracking All areas coated Right shade No flacking					
No cracking All areas coated Right shade					