	Paint System			
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Paint System Rating C4 Color TBD

I I PICAL A	PPLICATIONS		INTERIOR		EXTERIO	DR
C4			Chemical plants, water system		Industrial areas and coastal areas	
		(not immersion), coastal ship and with r boat yards		with moderate saim	n moderate salinity	
Table 1 – (ISO 12944-5/ ASTM 117B) Test procedures for paint systems applied to ferrous and non-ferrous materials						
Corrosivity Category as defined in	Durability ranges	ISO 2812-1 ¹ (chemical resistance)	ISO 2812-2 (water immersion)	ISO 6270 (water condensatio	ISO 7253 (neutral salt n) spray) Hrs.	Standards Typical
ISO 12944-2		Hrs.	Hrs.	Hrs.	ing opragy mor	
C4	Low	-	-	120	240	750+
	Medium	-	-	240	480	

Removal of oil, soil, lubrication greases, metal oxides, welding scales etc. is essential prior to any coating process. It can be done by a variety of chemical and mechanical methods. The selection of the method depends on the size and the material of the part to be coated, the type of soil to be removed and the performance requirement of the finished product. The most effective preparation methods include;

Shot Blasting	Chemical Cleaning Process	Mechanical abrasion	
♦ Grit Blasting	Impact Needle Guns	♦ Flame Cleaning	

Chemical pre-treatments involve the use of phosphates or chromates in submersion or spray application. These often occur in multiple stages and consist of <u>degreasing</u>, etching, de-smutting, various rinses and the final <u>Phosphating</u> or <u>chromatins</u> of the substrate. The pre-treatment process both cleans and improves bonding to the metal. Another method of preparing the surface prior to coating is known as abrasive blasting or <u>Sandblasting</u> and shot blasting. Blast media and blasting abrasives are used to provide surface texturing and preparation, etching, finishing, and degreasing for products. The most important properties to consider are chemical composition and density;

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particle shape and size; and impact resistance. See appropriate SSPC / NACE standard to insure material has been treat to meet the primer/paint suppliers Technical Data Sheet or TDS requirement to assure system is prepared properly.

Silicon carbide grit blast media is brittle, sharp, and suitable for grinding metals and low-tensile strength, nonmetallic materials. Plastic media blast equipment uses plastic abrasives that are sensitive to substrates such as aluminum, but still suitable for de-coating and surface finishing. Sand blast media uses high-purity crystals that have low-metal content. Glass bead blast media contains glass beads of various sizes.

Cast steel shot or steel grit is used to clean and prepare the surface before coating. Shot blasting is a method of preparation and is highly efficient on steel parts.

Prime all exposed areas of metal with the appropriate primer. Allow to dry complete prior to wrapping or stacking. Prime or treat aluminum, steel or cast iron should be checked by supplier for any damaged coating prior to shipment to Baldor.

NOTE: All Primer coating shall be tested by Company looking at the marriage between the primed substrate to various top coats to assure proper Adhesion, Creepage, Abrasion & Blister ratings per appropriate ASTM or ISO standards to validate performance. Once approved, changes can only occur by submitting sample material per the Company's process requiring new samples submission.

SYSTEM C4 RATING

PRODUCT DESCRIPTION:

- A. A two component ambient temperature curing, non isocyanate coating with outstanding exterior durability and color retention and fast dry time. Weathering characteristics are similar to those of acrylic urethanes. It is approved by USDA for incidental contact with food in federally inspected meat and poultry plants. It is made with ingredients that are approved for contact with Type VII food as listed under 21 CFR 175.300
- B. Minimum DFT for top coat is 2-3 mils over substrate
- C. Other surfaces included are E-Coat, Autophoretic, Powder Coat, MG1500Y02 and a wide variety of primer materials.
- D. To ensure performance greater than C4 it is recommended an additional clear coat of Polyurethane 1-2 mils be applied.

SYSTEM	PRIMER	PERFORMANCE CHARACTERISTICS
Industrial Grade	Epoxy rich primer, E-Coat,	Bonds to mating surface allowing
Dirty/Heavy Duty Industrial/Marine/GP	Autophoretic, Powder Coat or Iron Phosphate	material to achieve ISO12944-5 (C3, C4 rating) with addition of top coats. (Salt Fog rating @ 750/1000)

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Optional Topcoats:				
Wilkofast, Wilkothane, Wilkopon				
NOTE : all pretreat coating material and top coating materials shall be applied in accordance with the manufactures application instructions (TDS /PDS)				
REPAIR PROCEDURE				
<u>REPAIR</u> :				
Damaged areas must be repaired using appropriate primer, sanding effected area and feather-edged. Always use a tack cloth to remove sanding dust and other contaminants before application of repair coat.				
INSPECTION				
INSPECTION:				

The plant's Quality Team shall have designated inspectors to review the coating processes.