| | | Paint S | ystem | |
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Paint System Rating C5I/C5M Color TBD

| PURPOSE / LOCATION | | | | | | |
|--------------------|-------------------------------------------------------------------|-------------------------------------------|--|--|--|--|
| | INTERIOR | EXTERIOR | | | | |
| C51 | Buildings or areas with high | Industrial areas with high humidity | | | | |
| | high pollution | and aggressive atmosphere | | | | |
| C5M | Buildings or areas with permanent condensation and high pollution | Coastal and offshore with high alkalinity | | | | |

Table 1 – (ISO 12944-5/ ASTM 117B)

Test procedures for paint systems applied to ferrous and non-ferrous materials

| Corrosivity | Durability | ISO 2812-1 ¹ | ISO 2812-2 | ISO 6270 | ISO 7253 | Standards |
|-------------|------------|-------------------------|------------|-------------------------|------------------------------|-----------|
| defined in | ranges | resistance) | immersion) | (water condensation) | (neutral sait spray) Hrs. | rypical |
| ISO 12944-2 | | Hrs. | Hrs. | Hrs. | | |
| C5I | Low | 168 | - | 240 | 480 | 1500+ |
| | Medium | 168 | - | 480 | 720 | |
| | High | 168 | - | 720 | 1440 | |
| C5M | Low | - | - | 240 | 480 | 1500+ |
| | Medium | - | - | 480 | 720 | |
| | High | - | - | 720 | 1440 | |

SURFACE PREPARATION, PRETREATMENT

PRETREATMENT:

Sandblasting is the only approved surface preparation

- A. Solvent clean per SSPC-SP-1 (Solvent Cleaning) prior to sand blasting.
- B. Prior to abrasive blasting:
 - 1 Metal plugs must be placed in grease inlets, drain fittings and conduit openings.
 - 2 Plug and / or blind all openings that are not to be coated.
 - 3 Round-off by grinding all excessively sharp corners.
- C. It is imperative that the abrasive be prevented from entering the motor
- D. All exterior surfaces of the motor and the top and side hoods, if so equipped, must be abrasive
- blasted per SSPC-SP-10 (Near White Metal Blast Cleaning) with a 1-3 mil (25-75 micron) surface profile.
- E. Apply primer as soon as possible, but not longer than 2 hours, to prevent blasted surfaces from

| | | Paint System | | | |
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rusting. Spot re-blast to remove any newly formed surface oxidation or contamination.

<u>Note</u>: 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; 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 Baldor Electric 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 C5 RATING

PRODUCT DESCRIPTION:

| | | Paint S | ystem | |
|------------------|--------------------------------|--------------------|--------|------------|
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- 1. A three-coat paint system specifically designed for industrial motors that will be subjected to harsh corrosive environments (C5M Marine Duty), consisting of the following:
 - A. Primer: Inorganic Zinc Rich Primer, applied at 1.5-2.5 mils DFT
 - B. Intermediate Coat: White Mastic, applied at 6.5-10 mils DFT
 - C. Topcoat: Polyurethane color TBD, applied at 1.5-2.5 mils DFT
 - D. All materials must be brought to ambient temperature prior to use.
- 2. Total Dry Film Thickness of the system shall be 9.5 mils minimum, 12.25 average, 15 mils maximum

| SYSTEM | PRIMER | PERFORMANCE CHARACTERISTICS |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Performance Primer for Severe Duty Industrial/Marine <u>Note:</u> other systems are available which meets the performance criteria but not film build as noted per ISO12944-5 using special type epoxies as base coat | Organic or inorganic Zinc Primer - Zinc Phosphate | Bonds to mating surface allowing material to achieve ISO12944-5 (C5I, C5M rating) with addition intermediate coat and top coats. (Salt fog rating @ 1500+) |

NOTE: all pretreat coating material and top coating materials shall be applied in accordance with the manufactures application instructions (TDS /PDS)

REPAIR PROCEDURE

REPAIR:

Damaged areas must be repaired using Epoxy Primer, Intermediate coat of Epoxy Mastic and topcoat of Polyurethane, sanding and application of all coats must be feather-edged. Always use a tack cloth to remove sanding dust and other contaminants before application of each coat. Large areas that have holidays in the primer shall be blasted to bare metal and properly recoated with Zinc Rich Primer, intermediate coat and topcoat.

A. Tape around affected area then sand using a 220-320 sand paper.

B. If the Inorganic Zinc Rich Primer is not showing, skip to Step C. If sanding removes all or part of the Inorganic Zinc Rich primer, apply a coat of Epoxy Primer to build up the total DFT of the zinc primer to 3-4 mils. Apply 1.25 wet mil thickness of Mastic to achieve 1 mil DFT. Allow to dry 15-30 minutes, then apply enough Mastic to build up the total DFT of the intermediate coat to 3-4 mils, followed by application of the topcoat.

C. If the intermediate coat of Mastic is not showing, go to step D, otherwise, apply an intermediate coat of Mastic over the Zinc Rich Primer. Apply enough Mastic to build up the total DFT of the intermediate coat to 3-4 mils, followed by application of the topcoat.

| | | Paint S | aint System | | |
|------------------|--------------------------------|--------------------|-------------|------------|--|
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| D. Superficial scratches that do not expose any primer or intermediate coat can be touched up by |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| applying the topcoat using proper "feather edge" technique. |
| E. Wait 3-4 days and use a rubbing compound to blend with the old coat and remove overspray |
| INSPECTION |
| INSPECTION: |
| A. The Company's Quality Team shall have designated inspectors to review the sandblasting and coating process and they must be given advance notice prior to the start of the process. B. The authorized inspector(s) will have the option to re-do any steps if they deem necessary C. Inspectors shall be given access to the work site during the progress of the work, and materials, equipment and any needed manpower shall be made available in order to properly conduct any inspection or testing |
| D. The plant shall provide calibrated instruments that are in proper working order for use in the inspection |
| E. Sand blast profile of 1.5-2.5 mils must be achieved, and this is determined by the use of surface profile comparator using visual comparison to SSPC-vis-1 color photographs, or NACE TM-01-70 visual standards and by use of KTA Press-O-Film |
| F. Apply each coating using the recommended wet film thickness which is measured by using a wet film gauge. The dry film thickness of each coat shall be verified using a dry film thickness gauge (magnetic or electronic) before application of subsequent coats. |
| G. The zinc rich coating must be tested for cure by using method described in Section 3.2 on Page 2. 4. Each cost must be preparity "flocked off" or dry before applied to section of subconvent costs. The |

H. Each coat must be properly "flashed off" or dry before application of subsequent coats. The maximum dry time allowed per coat must not be exceeded.

I. Time, Date, Temperature and Humidity must be recorded

J. Properly Documented form must be submitted to Company Quality Assurance Department.

K. Use Sample Inspection Log below, or other suitable form

| Date: | | Temperature: | | Humidity: | |
|------------------|------------|--------------|-----------|---------------------------------------|-----------|
| | | | | · · · · · · · · · · · · · · · · · · · | |
| Procedure | Time Start | Time Finish | WFT / NWM | Profile / DFT | Inspected |
| Sandblasting | | | | | |
| | | | | | |
| Zinc Rich Primer | | | | | |
| Lot/Batch | | | | | |
| Numbers: | | | | | |
| Epoxy Mastic | | | | | |
| Lot/Batch | | | | | |
| Numbers: | | | | | |
| 700 Series | | | | | |
| olyurethane | | | | | |

MG9000-XM C5 SYSTEM INSPECTION LOG

| | | Paint S | ystem | |
|------------------|--------------------------------|--------------------|--------|------------|
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| Lot/Batch Numbers: | | | |
|---------------------------|------------------------------------|--------------------------|--|
| Purchase Order Number: | Product Specification Number | Product Serial Number | |
| Specific color: | | | |
| Comments: | | | |
| | | | |
| | | | |
| | | | |
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