

Recommendations for Repainting Exterior of Enclosure

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Introduction

Qualified Persons

WARNING

Only qualified persons who are knowledgeable in the installation, operation, and maintenance of overhead and underground electric distribution equipment, along with all associated hazards, may install, operate, and maintain the equipment covered by this publication. A qualified person is someone who is trained and competent in:

- The skills and techniques necessary to distinguish exposed live parts from nonlive parts of electrical equipment
- The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed
- The proper use of special precautionary techniques, personal protective equipment, insulated and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment

These instructions are intended **ONLY** for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.

Read this Instruction Sheet

NOTICE

Thoroughly and carefully read this instruction sheet and all materials included in the product's S&C Instruction Handbook before maintaining your S&C Metal-Enclosed Switchgear. Familiarize yourself with the Safety Information on page 3. The latest version of this publication is available online in PDF format at sandc.com/en/support/product-literature/.

Retain this Instruction Sheet

This instruction sheet is a permanent part of your S&C Metal-Enclosed Switchgear. Designate a location where you can easily retrieve and refer to this publication.

Safety Information

Understanding Safety-Alert Messages

Several types of safety-alert messages may appear throughout this instruction sheet and on labels and tags attached to the S&C Metal-Enclosed Switchgear. Familiarize yourself with these types of messages and the importance of these various signal words:

DANGER

“DANGER” identifies the most serious and immediate hazards that will likely result in serious personal injury or death if instructions, including recommended precautions, are not followed.

WARNING

“WARNING” identifies hazards or unsafe practices that can result in serious personal injury or death if instructions, including recommended precautions, are not followed.

CAUTION

“CAUTION” identifies hazards or unsafe practices that can result in minor personal injury if instructions, including recommended precautions, are not followed.

NOTICE

“NOTICE” identifies important procedures or requirements that can result in product or property damage if instructions are not followed.

Following Safety Instructions

If you do not understand any portion of this instruction sheet and need assistance, contact your nearest S&C Sales Office or S&C Authorized Distributor. Their telephone numbers are listed on S&C’s website sandc.com, or call the S&C Global Monitoring and Support Center at 1-888-762-1100.

NOTICE

Read this instruction sheet thoroughly and carefully before repainting the S&C Metal-Enclosed Switchgear.



Replacement Instructions and Labels

If additional copies of this instruction sheet are needed, contact your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

It is important that any missing, damaged, or faded labels on the equipment be replaced immediately. Replacement labels are available by contacting your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

Repainting Exterior of the Enclosure

WARNING

These instructions apply only to repainting the exterior of a metal-enclosed gear enclosure.

These instructions do not apply to repainting the interior of a metal-enclosed gear enclosure. The gear must be de-energized to repaint the interior of an enclosure. In addition, components inside the gear must be adequately protected to prevent exposure to media blast, primer, and paint. **Repainting the interior of an energized metal-enclosed gear enclosure can cause serious injury or death, as well as damage to the gear.**

Note: S&C Electric Company assumes no responsibility or liability for the performance of the repainted enclosure finish. The user of the metal-enclosed gear shall not institute a claim in contract, indemnity, warranty, tort (including negligence), strict liability or otherwise, arising out of or in any way connected with the repainted enclosure finish.

The exterior surface of the metal-enclosed gear should be prepared by completing the following steps:

STEP 1. If possible, surface preparation and painting should be performed on a non-windy, dry day. If weather conditions are not favorable, construct a temporary shelter around the gear.

STEP 2. *If surface rust is present on the enclosure, either:*

- (a) Media-blast the affected areas to remove the rust. The gear should be de-energized if the exterior surface is to be media blasted.
- (b) Treat the affected areas with Loctite® Extend Rust Neutralizer.

Media-blasting is preferred and renders a surface with a tooth-like profile that enhances paint adhesion.

Note: Loctite Extend Rust Neutralizer chemically converts the rust into an inert film that resists further rust formation. Follow the directions on the container. All loose dirt, paint, and rust must be removed by scraping, wire brushing, or sanding prior to application. Allow the rust neutralizer to air dry for 24 hours.

STEP 3. Smooth any exterior surface defects of the enclosure—except for areas treated with Loctite Extend Rust Neutralizer—with 150 grit sandpaper using a flexible sandpaper holder or orbital sander. It is not necessary to remove all coating layers down to bare metal. The sanded surface should be even, without wrinkles, blisters, or loose paint.

STEP 4. Wipe all exterior surfaces of the enclosure with a clean, dry cloth.

STEP 5. Wipe all exterior surfaces of the enclosure with a clean cloth soaked in a solvent, such as isopropyl alcohol.

STEP 6. Mask all labels and nameplates on the enclosure with painters tape.

STEP 7. Prepare the appropriate amount of Valspar R-Cure 200 Gray Epoxy Primer, based on the surface area of exposed bare metal. Resin EEA0123 and Catalyst CEC0056 should be mixed in a ratio of 10:1. Refer to Valspar's technical data sheet.

STEP 8. Apply Valspar R-Cure 200 Gray Epoxy Primer to the exposed bare metal. Coating thickness should be 1.0 to 1.5 mils. Allow the primer to air dry for at least 30 minutes before applying the urethane topcoat in Step 9.

STEP 9. *If the enclosure color is Munsell Olive Green, 7GY3.29/1.5:* Prepare the appropriate amount of Valspar R-Cure 550 Dark Green Urethane Topcoat. Resin KXG0141 and Catalyst PXC0054 should be mixed in a ratio of 2:1. Refer to Valspar's technical data sheet.

If the enclosure color is not Munsell Olive Green, 7GY3.29/1.5: The urethane topcoat must be color-matched to the acrylic enamel finish originally furnished. Contact Valspar Customer Service at 800-845-9061 for assistance. Request a Valspar product code using R-Cure 550 topcoat technology (for example, Munsell Olive Green, 7GY3.29/1.5—Valspar R-Cure 550 Dark Green—is the color match to Valspar OEM Green Acrylic Baking Enamel KMG-0708). Prepare the appropriate amount of color-matched urethane topcoat.

STEP 10. Apply a uniform coat of urethane topcoat to the enclosure. Coating thickness should be 1.3 to 1.5 mils. Allow the topcoat to air dry. It should be tack-free approximately 3 hours after application.

STEP 11. After the enclosure finish has dried for at least 24 hours, remove the painters tape from the labels and nameplates on the enclosure.

Any missing, damaged, or faded labels should be replaced immediately by the end user. Replacement labels are available directly to the end-use customer identified on the original order to S&C. Contact the nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada, Ltd.