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IMPORTANT: IN ORDER TO INSURE SATISFACTORY PROJECT RESULTS, SPECIFICATIONS, SYSTEMS AND PRODUCTS CANNOT BE CHANGED OR SUBSTITUTED IN ANY WAY WITHOUT PRIOR WRITTEN APPROVAL FROM HELIOS ENERGY PRODUCTS, INC. BEFORE PROJECT BID.

If existing substrate conditions do not exactly match the substrate conditions described in this specification, contact Helios Energy Products Corporation for a modified specification to meet your exact existing substrate conditions.

GENERAL INFORMATION

The Applicator shall at all times take necessary steps to protect all public and property from damage during his operations and shall be responsible for any and all kinds of damage caused by the Applicator's employees.

The Applicator is responsible and remains liable for proper application of all materials. Applicators have the responsibility for following proper application methods as per instructions and specifications under Helios Energy Products Corporation, SSPC, PDCA and ISO 9001 standards. The Applicator will perform all work in compliance with approved manufacturers specifications and standards. The Applicator is responsible and remains liable for specified requests by customer.

SURFACE COMPATIBILITY

The new and old coatings must be compatible. The determination of compatibility may be accomplished through examination by laboratory analysis, or field testing. ENERCHRON® cannot be bonded to wax, oils, grease or solvent based tar. It cannot be applied to concrete cured with compounds of wax or chlorinated rubber.

STORAGE

The Applicator's operations for the preparation of ENERCHRON® and storage of materials shall be limited to this designated area, and such space shall be kept clean and orderly at all times. ENERCHRON is to be stored in a shaded area where temperatures are maintained between 40 to 90 degrees F. The Applicator shall employ all safety measures during operations for the prevention of fire.

SURFACE PREPARATION

It is essential that the substrate is properly prepared. The substrate must be dry, clean, free from all contaminants, uniform, sound, free of sharp projections, imperfections and defects, free of all oil, grease, dirt, loose coatings, oxides and any foreign matter, for proper adhesion.

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A variety of cleaning and removal systems are available for the Applicator to employ. The use of any one or a combination of more than one is dependent upon the condition of existing coatings, the materials applied and the substrate involved. Because of varying substrates, the selection of tools must be left to the Applicator who should make a decision in accordance with standards of the Painting and Decorating Contractors of America (PDCA).

All loose, unsound or non-adhering paint must be removed. Remove all dirt, chalk and all substrate contaminants that will interfere with adhesion. It may be necessary to sandblast, power wash or wire brush and scrape all areas to be coated and use a mild detergent solution if required. All residue must be removed from the substrate. If mildew is present, a mildewcide may be metered into the power washer at this time. To remove mildew, if not metering a solution in the power wash, scrub affected areas with a commercially available mildewcide. Rinse all substrates with clear, clean water to remove any remaining mildewcide residue. Subsequent treatments may be required due to the severity of mildew. Allow the substrate to thoroughly dry before proceeding with preparation or application.

Large cracks must be V-grooved out and all other substrate defects, such as holes and the like, must be repaired using patch or caulking material to match the surrounding substrate profile, Applicator is responsible to contact and receive written approval from the Helios Energy Products Corporation for compatible materials for each individual situation.

Degloss all glossy and previously enameled substrates to provide a roughened surface or “tooth” for proper adhesion.

PRIMER

ENERCHRON® is self-priming EXCEPT OVER SURFACES WHICH MAY BLEED. Over wood, metal or any substrate that may bleed where a primer is needed, CONTRACTOR is responsible to contact and receive written approval from the Helios Energy Products Corporation for compatible materials for each individual situation.

NOTIFICATION OF FINISH OF SUBSTRATE PREPARATION

After substrate preparation has been completed the Applicator must notify Customer and the certified approved ISO 9001 job inspector for inspection of substrates prior to applying ENERCHRON® under ISO 9001 regulations. Failure to follow the above, for inspection and approval of the substrate preparation will void all warranties and result in a breach in contract by Applicator of job.

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MATERIALS

The coating material specified is “ENERCHRON®”. Any and all unapproved materials that are applied without written approval by the Helios Energy Products Corporation will be removed at total expense to the Applicator.

All products specified must comply with the current air quality regulations governing architectural coatings. Regulatory changes may affect the formulation, availability, or use of specified coatings. Check with the supplier or your representative regarding such changes prior to start of project.

ENERCHRON® LICENSED APPLICATORS

ENERCHRON® should only be applied by licensed contractors of the Helios Energy Products Corporation. These licensed contractors are trained for the application of Helios Energy Products Corporation products in complete accordance with application instructions provided by the Helios Energy Products Corporation.

APPLICATOR RESPONSIBILITIES

Applicators have the legal responsibility for following proper application methods as per instructions and specifications under Helios Energy Products Corporation, Steel Structures Painting Council, Painting and Decorating Contractors of America and ISO 9001 standards. Failure to comply with this specification may jeopardize the entire project and will void all warranties and will result in Applicator removing any material which has been applied at total expense to the Applicator, including replacement of material.

RECORD KEEPING

Over all substrates the applied primers and ENERCHRON® system must be approved in writing, by the Helios Energy Products Corporation prior to product application. The Applicator and the certified approved ISO 9001 job inspector must keep a daily log of all actions with verified measurements of conditions pertaining to the job under ISO 9001 standards .

APPLICATION OF ENERCHRON®

All work shall be done by experienced, skilled craftsmen. All finishes shall be applied evenly and be free from runs, sags, skips, crawls or other defects. The work to be done consists of furnishing all material, labor, tools and all other necessary equipment and supplies to perform a complete and thorough job. The application procedure in each case will require the material to be sprayed rolled or brushed on; recoats may be applied after the first coat has dried. Preferred method is to apply with airless spray system. When using the spray method a size 20 tip is recommended. DO NOT THIN OR CUT ENERCHRON®, it is supplied at spray viscosity and needs no thinning.

APPLICATION RATE

EXTERIOR Vertical Walls

ENERCHRON® V40 / ENERCHRON® 2000-r
lst Coat: Using ENERCHRON®, Spray on at 2 to 6 mils DFT.
2nd Coat: Using ENERCHRON®, Spray on at 2 to 6 mils DFT.
Spray on a total of 4* to 12 mils DFT to wall substrates.
*A total of 4 mils DTF is a minium performance thickness.
NOTE: ENERCHRON® 2000-r will take more than two coats to reach a 12 mil DFT.

INTERIOR Vertical Walls

ENERCHRON® V40 / ENERCHRON® 2000-r
lst Coat: Using ENERCHRON®, Spray on at 2 mils DFT.
2nd Coat: Using ENERCHRON®, Spray on at 2 mils DFT.
Spray on a total of 4 mils DFT to wall substrates.

MOISTURE, TEMPERATURES AND CURING TIME

ENERCHRON® shall not be applied when the ambient temperature exceeds 90 degrees F., when the ambient temperature is below 50 degrees F., when the ambient temperature is expected to be below 50 degrees F. before ENERCHRON's complete drying, or when rain is likely to occur before ENERCHRON's complete curing. Moisture content of substrates must not exceed 15% for the application of ENERCHRON®. ENERCHRON® must have 7 days cure time before being exposed to ponding water conditions.

CLEANUP AND SAFETY

During the progress of the work, safety shall be of the utmost importance at all times, and the Applicator shall safeguard persons during the progress of the work by providing barricades and appropriate lights to warn of obstruction. Upon completion of the work and before acceptance and final payment shall be made, the CONTRACTOR shall clear the entire project and all grounds occupied by him in connection with his work of all rubbish, excess material and other debris caused by his operations.

WARNING: Because of the highly reflective nature of ENERCHRON protective sunglasses must be worn when coating external surfaces.