



SP-3888[®] FC CARTRIDGE COATING

APPLICATION SPECIFICATION

The World Leader in Specialty Coatings

1. General

- 1.1 SP-3888[®] FC Cartridge Coating is a 100% solids, epoxy manufactured and marketed by Specialty Polymer Coatings, Inc. (SPC), #100 - 5350 - 272nd Avenue, Langley, B.C., Canada, V4W 1S3, Telephone: (604) 514-9711, Fax: (604) 514-9722, and applied by SPC approved applicators.
- 1.2 This specification is applicable to the use of SP-3888[®] FC Cartridges with a manual dispenser and optional static mixer for coating repairs. This system is recommended for the repair of pinholes and holidays of 300mm (12") or less in diameter.
- 1.3 SP-3888[®]FC Cartridge Coating – Mixed Colour: Grey
- 1.4 Effective date of this specification: May 10 2019

2. Packaging

- 2.1 SP-3888[®] FC Cartridges – 2 Parts Base and 1 Part Hardener
- 2.2 Manual Dispenser
- 2.3 Static Mixers – optional.

3. Surface Preparation

- 3.1 Repair areas shall be roughened using carborundum cloth, sandpaper, file, or surface grinder.
- 3.2 The adjacent coating should be abraded for a minimum distance of 25mm (1") to ensure inter-coat adhesion.
- 3.3 If necessary on larger repairs, feather the edges of the adjacent coating.

- 3.4 Wipe with a clean cloth to remove dust. A dust respirator should be worn for all sanding or grinding activities.
- 3.5 All surfaces to be coated shall be clean and completely dry prior to the application of the coating.

4. Application

- 4.1 The minimum surface temperature for coating is 10°C (50°F). The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature.
- 4.2 The area to be coated should be preheated in cold temperature conditions. The maximum preheat temperature shall not exceed 100°C (212°F). For some applications, post-heating may be required to achieve an adequate cure depending upon ambient temperature, pipe wall thickness, and other variables. The coating must not be allowed to freeze before an adequate cure is reached. Preheating and post-heating may also be utilized if an accelerated cure time is required.
- 4.3 Preheating may be accomplished by either flame heating the surface with a propane torch prior to blasting or by the use of an induction coil or catalytic infrared heater subsequent to blasting and prior to coating. Post-heating can only be done using an induction coil or catalytic infrared heater.
- 4.4 Eject the required amount of coating material from the cartridge onto a clean tray using the manual dispenser.
- 4.5 Hand-mix the product with a stir stick until the colour becomes uniform with no streaks.
- 4.6 Apply the coating to the required thickness on the area to be repaired using a spatula or paintbrush.
- 4.7 Extend the coating to at least 25mm (1") over the surrounding pre-roughened coating.
- 4.8 No drips, running, sagging or other discontinuities are acceptable.
- 4.9 The applicator shall exercise every reasonable precaution to assure proper application of the coating and satisfactory protection of the steel surface.

5. Safety Precaution

- 5.1 The contractor will provide safe and secure scaffolding for ready access to work areas.
- 5.2 SP-3888® FC Cartridge coating is **HARMFUL IF ABSORBED THROUGH SKIN, INHALED OR SWALLOWED**. It is a skin and eye irritant. Personal protective equipment is required. Refer to the **Material Safety Data Sheets**.
- Chemical resistant gloves with a long cuff that will overlap the clothing sleeves should be worn when handling this product. The glove/clothing overlaps should be sealed by tape. Check with the glove manufacturer to determine the proper glove type.
 - Wear an appropriate, properly fitted vapour respirator (NIOSH/OSHA approved) during application where vapour/mist is likely to be encountered, e.g. confined spaces and during winter construction or when the substrate is preheated. For outdoor application and areas with adequate ventilation, the use of a respirator is normally not required. Follow the respirator manufacturer's recommendations. A dust respirator should be worn for any activity such as sanding or grinding of cured coating.
 - Wear splash proof chemical safety goggles and/or face shield.
 - Wear impervious boots.
 - Long-sleeved clothing is to be worn over regular clothing to cover all exposed areas of arms, legs or torso during mixing and application of the coating. Breathable clothing, such as cotton or disposable coveralls, is recommended.
 - Emergency eyewash and a shower should be in close proximity, where possible. A barrier cream may be used, in conjunction with the stated protective measures, as an additional safeguard against skin contact.
- 5.3 Keep the containers closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with Federal, Provincial, and Municipal regulations in Canada and Federal, State, and County regulations in the United States of America.
- 5.4 No open flames, smoking or welding will be allowed in the immediate vicinity during the coating application.
- 5.5 All personnel on the application crew shall be informed of regulations regarding smoking, auto traffic restrictions, the meaning of warning bells, horns and whistles, fire warnings and restricted areas. Members of the coating crew shall maintain good personal hygiene,

wash thoroughly after exposure to the coating application, particularly before eating or going on breaks.

6. Materials

- 6.1 SP-3888® FC Cartridges must be sealed prior to use.
- 6.2 **NO** amount of SP-3888® FC Cartridge coating shall be given, sold or exchanged without express written permission from SPC.
- 6.3 The acceptable shipping and storage temperature range for SP-3888® FC Cartridge coating is between 5°C (41°F) and 40°C (104°F).
- 6.4 Store SP-3888® FC Cartridge coating in a cool, dry, well-ventilated area. Keep the lids sealed. The Shelf Life is a maximum of 24 months in unopened containers.

7. Substrate Types

- 7.1 This specification is applicable to standard steels only.
- 7.2 Exotic metals, stainless steel or other special typed of steel or alloys may require different consideration as to surface preparation and SPC formulations. Notification of the use of such metals must be made to SPC.

8. Cleaning

- 8.1 If cleaning is necessary, the following materials can be used:
 - Use SP-100 Equipment Wash to clean uncured material on spatulas.
 - Use SP-110 Tool Cleaner to clean cured material on objects such as putty knives or mixing blades.
 - Brushes and rollers must be disposed of after use. **DO NOT** attempt to clean and re-use.

9. Insurance

- 9.1 The contractor will provide all necessary insurance to protect itself and its employees during the application of SP-3888® FC Cartridge coating.
- 9.2 SPC will provide all necessary coverage to protect SPC Employees on site.

10. Disposal

- 10.1 Dispose of empty Base and Hardener containers according to Federal, Provincial, and Municipal regulations in Canada and Federal, State and County regulations in the United States of America. Allow all mixed material to completely gel prior to disposal.

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