

Manufacturer’s Inventory for the Fluropon® FP Coil product line:

This shall serve as the Manufacturer’s Declaration of the Chemical Inventory for the LEED Material Ingredient Reporting credit for the Fluropon® FP Coil product line, manufactured by The Sherwin-Williams Company.

For more information about Sherwin-Williams, please visit: www.sherwin-williams.com. Or, for more information about Fluropon® FP and copies of the Safety Data Sheets for products sold to coil coating applicators, please contact coilhelp@sherwin.com.

Description of the Fluropon® FP Coil product line:

Fluropon® FP is primarily used to protect metal building products such as roofing, siding, and wall panels. Fluropon® FP coated metal is highly durable and may remain useable for 30-40 years in exterior applications.

Fluropon® FP Coil coating system
Primer (PMY0500FP)
Backer (PMA0507FP)
Fluropon® FP Topcoat

A Fluropon® FP Coil coating system consists of 3 coating layers applied to a substrate- a primer and topcoat on one side of the metal, and a backer coat on the other side. There is a standard primer and backer used in most systems while the topcoat is available in a wide variety of colors. The base formula of the topcoats largely does not change. Pigments are swapped out to achieve the wide array of options.

Coil Coatings Overview:

Coil coatings are applied to a substrate in dedicated industrial facilities with specialized equipment. This highly controlled process includes application of the coating to a metal substrate (steel, aluminum, etc.) and baking the coated substrate at a high temperature to cure the coating. This process is repeated for each coating layer applied to the proper side of the substrate (e.g., primer + topcoat on side A, backer on side B). When considering a coated metal substrate, it is important to note that of the final coated product only a small percentage consists of the cured coil coating layers (primer, topcoat, backer). A majority of that final product is the metal substrate itself.

During curing, the non-volatile material in the coating forms a strong, continuous film. The resins cure by melting in a thermoset process and chemically react to cross-link with other resin components. Other components (e.g., colorants) remain tightly bound in the film. The volatile solvents evaporate in the curing ovens and their emissions are captured and burned as energy, making this process efficient and contained.

Fluropon® FP is primarily an exterior coating. Due to the technical nature of the application process these coatings can only be applied by approved applicators. Exposure to the liquid product is limited to the manufacturing and application process. Once a product leaves the applicators facility that coating exists in its cured form. Installers of metal building products will handle coated metal roofing, sheathing, and other metal coated substrates during construction.

Description of the Manufacturer’s Inventory Assessment:

In this assessment, we have disclosed the chemical content of all ingredients present at >1000 ppm (0.10%) in the cured Fluropon® FP product (primer, topcoat, and backer), the respective GHS hazards associated with these chemicals, and their function/role. This inventory includes colorants. In order to protect our confidential business information, specific quantities and CAS numbers are not reported for

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all chemicals. Additionally, chemicals with the same role have, in some cases, been aggregated into one line item.

When reviewing this document, it is important to consider that the potential hazards of the pre-cured product that is supplied to coil-coating applicators is different from the cured coating applied to metal. For example, due to the evaporation and incineration of volatile solvents and the chemical reactions (e.g., transforming, encapsulating, etc.) that occur during the application and baking process, the end user interacts with a different form of the product than the applicator.

As noted above, uncured Fluropon® FP is only handled by trained professional applicators using appropriate PPE in specialized facilities. As such, the information in this document shall not be utilized to make claims regarding product safety and/or to predict risk from exposure.

Information contained in this declaration has been verified by NSF as complying with LEED v4.1 Material Ingredient Reporting – Manufacturer Inventory criteria. Documents containing formula information were provided to NSF that represented each product line so that NSF could ensure accuracy throughout their review. These documents were exclusively shared with NSF to ensure business confidentiality. This information will be updated as necessary as reformulations or changes to GHS classifications occur. Additionally, this document will be internally audited by Sherwin-Williams annually to ensure correctness.

Any questions on this declaration should be sent to sustainability@sherwin.com.

Raw Material Composition for the Fluropon® FP Coil product line: GHS Classifications associated with the raw materials when taking into consideration the coating as part of the final product. Again, please note, potential hazards of the pre-reacted and post-reacted raw materials may differ.

Material/Role	Content Range	GHS Classification(s)
Substrate	92.50% - 99.00%	Unknown. Not supplied by Sherwin-Williams.
Resins	0.50% - 3.00%	Aquatic Chronic - Category 3 Not classified.
Titanium Dioxide CAS#: 13463-67-7	0.05% - 1.50%	Carcinogenicity - Category 2
Pigments	<1.00%	Not classified.
Extenders	<1.00%	Not classified.
Additives	<1.00%	Not classified.

The information contained in this material ingredient disclosure is accurate to the best of Sherwin-Williams' knowledge at the time of writing based on the information provided to us by our raw material suppliers.



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