PMC Product Management Team

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TECHNICAL BULLETIN – PPG Flooring™ 912 LV

THIS PRODUCT CARRIES A RISK OF SPONTANEOUS COMBUSTION. REVIEW THIS DOCUMENT CAREFULLY AND FOLLOW ALL GUIDANCE PRIOR TO PRODUCT USE.

PPG Flooring 912 LV is a fast reacting, 100% solids epoxy floor primer/sealer. Several cure options are available to suit specific application needs. Pot life and working time are varied depending on the cure used and may be reduced to just several minutes. Warm ambient temperatures will also speed up the reaction. Due to these properties, exotherms and potential for spontaneous combustion are imminent for volume of mixed product that is left in the bucket. Product must be poured out completely and applied immediately after mixing to avoid risk of exothermic reactions and spontaneous combustion.

This document is intended as a general guide to the safe use of *PPG Flooring* 912 LV epoxy primer/sealer. Recommendations in this guide should be followed. Before application, consult safety data sheets, product data sheets and **product labels, including the following warning statement included on the PPG Flooring 912 LV product label:**

Ventilation

As a significant amount of exposure can be from airborne materials in the form of fumes, vapors, and dusts, it is important that a good level of ventilation is maintained. The level of ventilation depends upon the task being undertaken and may vary from general background, as in a well aired workshop, to specialized facilities to provide general and / or local exhaust ventilation through forced extraction systems. If workplace conditions are such that it is difficult to achieve a good level of ventilation, then respiratory protection is an option. Depending on conditions, air-purifying respiratory protection equipped with appropriate chemical and particulate filter cartridges, or air-supplied respiratory protection may be selected.

Exotherms

An exotherm is an uncontrollable reaction between a solvent-free resin and hardener, which happens when the heat generated by the resin-hardener reaction cannot escape readily. The trapped heat accelerates the reaction that in turn generates more heat and further accelerates the reaction until it becomes uncontrollable and may

combust. This normally happens only in bulk mixes, as mixed resin applied to a job is usually in a thin film from which heat readily escapes. Causes of exotherm are usually a combination of the following circumstances:

• Mixing a large volume of resin / hardener and not pouring and applying the material fast enough.

• Not using the mixed materials quickly enough, particularly if it is a 'fast' resin / hardener system

• Higher than normal ambient temperature, or components and / or mixed material left in direct sunlight.

The appropriate methods of working should be used to reduce the likelihood of exotherm or spontaneous combustion. If an exothermic reaction between the resin and hardener occurs, then the container should be removed immediately from the workshop if safe to do so. The best way to deal with an exotherm is to immerse it in water, which cools it and reduces the volume of fumes produced. The fumes are noxious: do not inhale. To extinguish burning epoxy material the correct media is Carbon Dioxide, Dry Powder, Foam, or water fog. Do not use a full water jet.

First Aid

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. (Remove dried or cured epoxy with denatured alcohol. Follow up by washing with soap and water, then applying skin cream. Skin showing evidence of burn should be washed thoroughly in cold water, covered with a dry dressing and the employee referred to a doctor.) This statement is from Wolverine, but I thought it was relevant for the mixed product.

Inhalation:
Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin Contact:
Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion:
If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

PPE

Hygiene Measures:
Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection:
Chemical splash goggles and face shield.

Hand Protection:
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their

protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Gloves: Nitrile / Neoprene for application. Have heat resistant gloves on hand in case of an exotherm reaction in the bucket.

Body Protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection:
Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Training

The safe use and handling of epoxy resin systems require that all employees who work with these systems must be trained in safe handling procedures. The training program should address at a minimum the following items:

- Labels, Safety Data Sheets, and Technical Data Sheets
- Health and Safety Hazards
- Emergency Procedures
- First Aid
- Workplace Controls
- Personal Protective Equipment
- Safe Handling Procedures

The applicator assumes all responsibility for the selection of PPG Flooring products, for exercising appropriate safety measures in the application of any such products, for the suitability of such products for any application including the durability and safety of any such product.

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Disclaimer

This Document does not purport to address all applicability and safety concerns, if any, associated with its use. It is the responsibility of the user to determine applicability of the information and to establish appropriate safety practices.

Warranty

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. Technical Data Sheets and Safety Data Sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com.