## formerly known as Aliphatic Clearcoat Plus

## **DESCRIPTION**

Two-component, highly abrasion-resistant, aliphatic polyurea coating for industrial applications

#### **PRINCIPAL CHARACTERISTICS**

- · High solids
- Excellent abrasion resistance
- · Can be applied to concrete, steel, wood and plastic substrates
- Color stable and excellent UV weathering resistance
- Can be applied and cures at temperatures down to -20°F (-29°C).
- TYPICAL USES:
- Interior or Exterior Usage
- May be topcoated on polyurea, polyurethane or epoxy
- · Suitable for OEM with smooth leveling and high gloss
- · Flake and quartz broadcast systems

## **COLOR AND GLOSS LEVEL**

- · Clear or pigmented
- · White is standard color when pigmented
- High gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	9.1 lb/US gal (1.1 kg/l)	
Volume solids	100 ± 2%	
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (4.4 g/l)	
Recommended dry film thickness	10.0 - 16.0 mils (250 - 400 µm) per coat	
Theoretical spreading rate	160 ft²/US gal for 10.0 mils (3.9 m²/l for 254 μm) 100 ft²/US gal for 16.0 mils (2.5 m²/l for 406 μm)	
Dry to touch	2 hours	
Dry to overcoat	2 hours	
Overcoating Interval	Minimum: 2 hours Maximum: 4 hours	
Curing time	3 hours	
Full cure after	7 days	

Notes:



Ref. P852

## formerly known as Aliphatic Clearcoat Plus

- If overcoat time is exceeded, abrade and clean surface before recoating. Then treat with VF Tie Coat or SPI Prep
   Wipe as a reactivating adhesion promoter
- Curing time reflects when ready for light traffic.
- The shelf life for each of the unmixed components (Part A and Part B) for this product is 12 months at 70°F (21°C)
- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers, at temperatures above 60°F (16°C) and below 95°F (35°C)

#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Check for soluble salts on surfaces to be coated.
- Maximum allowable soluble salt level, chlorides: 3 μg/cm² (immersion), 7 μg/cm² (non-immersion)
- Maximum allowable soluble salt level, nitrates: 5 μg/cm² (immersion), 10 μg/cm² (non-immersion)
- Maximum allowable soluble salt level, sulfates: 10 μg/cm² (immersion), 20 μg/cm² (non-immersion)
- If amount of soluble salts exceeds recommended limits, treat with a liquid soluble salt remover until acceptable limits are reached

## **Metal**

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-10 cleanliness or higher. Achieve a surface profile of 2.0 3.0 mils (50 76 μm) or higher
- Ensure surface is dust free after blasting
- An acetone wash can be used to flash dry the surface

## **Concrete**

- All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013
- Prepare in accordance with SSPC SP-13 guidelines
- Maximum moisture content of 3 lb / 1,000 ft²/24 hours per ASTM F1869
- Moisture content should not exceed 5%

### Substrate temperature and application conditions

 Substrate temperature during application and curing should be above -7°C (20°F) Note: Do not install over damp, wet or saturated substrates

## **SYSTEM SPECIFICATION**

- Product is self priming and typically does not require an additional priming coat. In cases where primers are required, please use the recommended primers below.
- Primers for concrete (optional): PPG RAVEN® 175 Primer, PPG RAVEN® 171FS Primer, PPG VF15 Primer, or PPG VF20 Primer
- Moisture mitigating primers for concrete slabs: PPG Flooring 912 LV primer or PPG RAVEN® 175 primer
- Primer for metal surfaces: PPG AQUATAPOXY® 190 Primer

Ref. P852 Page 2/5



## formerly known as Aliphatic Clearcoat Plus

#### **INSTRUCTIONS FOR USE**

### Mixing ratio by volume: Part A to Part B 2:3

- . Pour Part B into Part A container and thoroughly mix the two components of the kit together
- . Mix Part A and Part B together using a paint paddle or low speed drill mixer, without leaving air bubbles
- Continue mixing for 3-5 minutes
- If pigment was ordered separately, add to Part B and mix thoroughly before adding to Part A
- Properly mixed material will be a uniform color without light or dark spots
- For recommended application instructions, see working procedure

### Note:

- Optional: Add 5-15% acetone by volume to the mixed Parts A&B to obtain stated pot life

## **Application**

- Can be applied using floor coaters, roller, airless spray, cup gun or pressure pot
- If a non-slip surface is desired, apply a 10 mil coat of product and then broadcast with aggregate, as required.
- · Apply second coat over aggregate within four hours.

## Airless spray

- 7/8 HP/min
- Use a 0.017-0.021 in (0.43-0.53 mm) spray tip

## **Brush/roller**

• Use a lint-free 1/4 or 3/8 in (6.4 - 9.5 mm) nap depending on surface texture

## **Cleaning procedure**

- Use disposable plastic tools and buckets wherever possible. Cured material may be stripped or peeled from plastic tools and containers
- Steel mixers or other metal tools are more difficult to clean. They may need to be soaked in a solvent such as MEK
  to soften and peel cured material

### **ADDITIONAL DATA**

Physical data of cured material		
Characteristic	Value	
Hardness, Shore D (ASTM D2240)	68	
Tensile Strength (ASTM D638)	5945 psi (41.0 MPa)	
Tensile Elongation (ASTM D638)	4%	

Ref. P852 Page 3/5



## formerly known as Aliphatic Clearcoat Plus

Physical data of cured material		
Taber Abrasion (ASTM D4060, CS-17 Wheel, 1 kg load, 1,000 cycles)	20 mg	
Tear Strength (Die C, ASTM D624)	460 pli	

### **Product Qualifications**

· Compliant with USDA Incidental Food Contact Requirements

#### **DISCLAIMER**

- · For industrial or professional use only
- This product is specifically suitable for use on the substrates mentioned in this document. For application on any
  other substrates, please always contact your distributor or PPG representative for specific instructions and in order
  to make sure that the product performance can be safeguarded.
- PPG Protective & Marine Coatings does not accept any responsibility or liability for any odor, taste or contamination imparted to the drinking water from the coatings or products retained in the coating

#### **SAFETY PRECAUTIONS**

· Read all label and Safety Data Sheet (SDS) information prior to use

## **WORLDWIDE AVAILABILITY**

It is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

### **REFERENCES**

• Information sheet | Explanation of product data sheets

## **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. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. 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. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

Ref. P852 Page 4/5



formerly known as Aliphatic Clearcoat Plus

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



Ref. P852 Page 5/5