Formerly known as VersaFlex 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

Note: Information Sheet available with test and certification data

#### **COLOR AND GLOSS LEVEL**

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

#### BASIC DATA AT 72°F (22°C)

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 (254 - 406 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		



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Full cure after 7 days	Data for mixed product				
	Full cure after	7 days			

Notes:

- If overcoat time is exceeded, abrade and clean surface before recoating. Then treat with VF Tack Coat, Raven 161 or SPI Prep Wipe as a reactivating adhesion promoter
- "Curing time" reflects when ready for light traffic.
- The shelf life for 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/cm<sup>2</sup> (immersion), 7 μg/cm<sup>2</sup> (non-immersion)
- Maximum allowable soluble salt level, nitrates: 5 μg/cm<sup>2</sup> (immersion), 10 μg/cm<sup>2</sup> (non-immersion)
- Maximum allowable soluble salt level, sulfates: 10 µg/cm<sup>2</sup> (immersion), 20 µg/cm<sup>2</sup> (non-immersion)
- If amount of soluble salts exceeds recommended limits, treat with a liquid soluble salt remover until acceptable limits are reached

#### <u>Metal</u>

- 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 ft<sup>2</sup>/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



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#### 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

#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: Part A to Part B 40:60 (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

#### Pot life

20 minutes at 77°F (25°C)

#### **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 solvent**

MEK



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#### **Cleaning procedures**

- 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)	5,945 psi (41 MPa) 4% 460 pli			
Tensile Elongation (ASTM D638)				
Tear Strength (Die C, ASTM D624)				
Taber Abrasion (ASTM D4060, CS-17 Wheel, 1 kg load, 1,000 cycles)	20 mg loss			

Note: The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

#### **Product Qualifications**

Compliant with USDA Incidental Food Contact Requirements

#### DISCLAIMER

- 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
- 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 for specific instructions and in order to make sure that the product performance can be safeguarded.

#### SAFETY PRECAUTIONS

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

#### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and 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.



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#### REFERENCES

•	CONVERSION TABLES	INFORMATION SHEET	1410
•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
•	SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496

#### 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 ARSING 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 shell 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 form recovery under this warranty.

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