February 9, 2024

PPG NOVAGUARD® 6875

Formerly known as Milamar 6875 LS

DESCRIPTION

Three-step monolithic lining system designed for trowel application

PRINCIPAL CHARACTERISTICS

- Easy application
- Rapid cure and return-to-service
- Excellent adhesion to concrete and steel
- Excellent wear and chemical resistance
- Can be applied to horizontal, vertical and overhead surfaces without sagging
- Maximum immersion temperatures to 210°F (99°C)
- TYPICAL USES:
- Suitable for tank lining
- Chemical processing facilities

Note: This product was previously sold as Milamar 6875 LS

COLOR AND GLOSS LEVEL

- Grey
- Low sheen

BASIC DATA AT 75°F (24°C)

Data for mixed product	
Number of components	Two
Volume solids	90%
VOC (Supplied)	max. 3.0 lb/US gal (approx. 366 g/l) max. 0.8 lb/US gal (approx. 102 g/l) max. 0.2 lb/US gal (approx. 22 g/l)
Temperature resistance	To 300°F 149°C)
Theoretical spreading rate	160 ft^2/US gal for 8.0 mils (3.9 m^2/l for 200 µm) 28 ft^2/US gal for 62.5 mils (0.7 m^2/l for 1588 µm) 160 ft^2/US gal for 8.0 mils (160.0 m^2/l for 200 µm)
Dry to touch	3 hours
Full cure after	4 days

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Data for mixed product	
Shelf life	Base: at least 3 months when stored cool and dry Catalyst (binder): at least 3 months when stored cool and dry

Notes:
- VOC (Supplied): Reflects data for Saturant - Liner - Veil Coat
- Temperature resistance is maximum for DRY heat
- Theoretical spreading rate: Reflects data for Saturant - Liner - Veil Coat
- Full cure after reflects maximum chemical resistance at 75°F (24°C)
- The shelf life for the unmixed components (Part A and Part B) for this product is 3 months at 70°F (21°C)

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- New concrete must cure a minimum of 28 days prior to application
- Prepare in accordance with SSPC SP-13 guidelines
- Surface texture of 60 grit sandpaper is desired for maximum adhesion

Metal

- Remove all rust, dirt, moisture, grease or other contaminants from the surface 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 4.0 mils (100 µm)

Substrate temperature and application conditions

- Substrate temperature during application should be between 65°F (18°C) and 85°F (29°C)
- Substrate temperature must be above 60°F (16°C) during application

INSTRUCTIONS FOR USE

- For concrete surfaces, NOVAGUARD 1900 primer (formerly known as ULTRAPRIME) is recommended
- Top coat: Refer to Technical Data Sheet NOVAGUARD 6850 (formerly known as Milamar 6850 CS)

Preparation

- Prior to use, the temperature of Part A and Part B should be at least 70°F (21°C) for at least 48 hours
- Saturant: Pour Part B into Part A container and thoroughly mix the two components of the kit together for 1 minute
- Mortar: Pour Part B into Part A container and thoroughly mix the two components of the kit together for 2 minutes. Slowly add part C and mix for another 1-2 minutes
- Veil Coat: Pour Part B into Part A container and thoroughly mix the two components of the kit together for 2 minutes
- Properly mixed material will be a uniform color without light or dark spots
- As with all two-component systems, apply immediately after mixing, as exotherm will increase over time

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Application

- On concrete surfaces, first apply NOVAGUARD 1900 primer and allow to dry tack-free
- Apply the primer in a thin, even layer with a roller and pull the excess down with a squeegee
- Apply the mortar by trowel and remove large surface marks
- Allow mortar to set for 2-3 hours
- Spread the veil coat over the surface with a roller and remove excess material with a squeegee
- Product working time is 20-30 minutes at 75°F (24°C)
- For recommended application instructions, see working procedure

Notes:

- The working time of the mortar will substantially be reduced if the material is left in the mixing pail
- Adequate ventilation must be maintained during application and curing as product fumes are flammable

Cleaning solvent

Clean all tools and mixers with acetone or other solvent based cleaners

Cleaning procedures

- Cured component material (Part A and Part B) may be disposed without restriction
- Excess component material (Part A and Part B) should be mixed together and disposed in a normal manner
- Product containers that are 'drip free' may be disposed according to local, state and federal laws
- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Physical data of cured material	
Characteristic	**Value**
Tensile Strength (ASTM C307)	13,300 psi (92 MPa)
Compressive strength (ASTM C579)	11,750 psi (81 MPa)
Bond Strength (ASTM C321)	To concrete failure
Bond Strength (On Steel)	3,300 psi (23 MPa)
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	29 mg loss
Water Absorption (ASTM C413)	0.025%

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

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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

SAFETY PRECAUTIONS

- Read all label and Safety Data Sheet (SDS) information prior to use
- Care should be taken to prevent eye and skin contact
- Never seal a container of mixed Part A and B as the continuing exothermic reaction may cause container to explode
- Contains styrene monomer, which will give off an odor during application

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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