

PPG Flooring™ 700 MDS

DESCRIPTION

Medium duty flowable polyurethane concrete slurry

PRINCIPAL CHARACTERISTICS

- Seamless, hygienic finish with no grout joints
- Excellent abrasion and impact resistance
- Low odor
- Fast curing
- Resistant to moisture vapor transmission (MVT)
- Anti-slip surface, meets ADA recommendations
- Resistant to fungi growth per ASTM G-21
- TYPICAL USES:
- Food and beverage processing facilities
- Chemical processing facilities
- Commercial/Food processing kitchens

COLOR AND GLOSS LEVEL

- Dark Gray, Medium Gray, Red, Green, Blue, Black, Tan, Khaki, & Safety Yellow

Notes:

- Color is approximate and will be subject to some degree of drift over time
- Color changes can occur under UV-exposure without negative impact on the product performance

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Four
VOC (Supplied)	max. 0.0 lb/US gal (approx. 5 g/l)
Recommended dry film thickness	3/16" (4763 µm)
Theoretical spreading rate	21 ft²/kit for 3/16" (2.0 m²/kit for 4763 µm)
Dry to walk on	6 hours
Full cure after	7 days
Shelf life	Part A: at least 12 months when stored cool and dry Part B: at least 12 months when stored cool and dry Part C: at least 6 months when stored cool and dry Part D: at least 24 months when stored cool and dry

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Ambient temperatures should be between 40°F (5°C) and 85°F (29°C)

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Concrete

- Apply only to properly prepared, clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. Neutralize or remove these and any laitance or weak surface layers such as broom finished concrete surfaces
- NEW CONCRETE - Should be cured for a minimum of 14 days to reduce possible shrinkage cracking in the concrete. PPG Flooring 700 polyurethane concrete can be installed after 7 days or when concrete reaches a minimum 3,500 PSI compressive strength which will allow for proper surface preparation. However, early curing movement, shrinkage or cracking that may occur in the concrete will be reflected through the final PPG Flooring 700 polyurethane concrete.
- Remove all surface contaminants such as oil, grease, and embedded chemicals
- Prepare surface by mechanical means to achieve a minimum CSP of 4-5 to meet ICRI standard guideline #03732 for coating concrete
- Expansion joints, control joints, and moving cracks should be filled with appropriate PPG JOINT FILL sealants or fillers then isolated with bond breaker

Note:

- Do not install over damp, wet or saturated substrates

INSTRUCTIONS FOR USE

Kit consists of 1 container Part A, 1 container Part B, 1 Part C Fill Material, & 1 Part D Powder Pigment

- To prevent lifting or delamination, keyways (minimum 5/16" (7938 µm) wide x 5/16" (7938 µm) deep) must be cut at all terminations, joints, columns, doorways, and drains.
 - Optionally, PPG FLR 700 VS Cove Base material can be used to install a cove and/or base as required. The cove/ base can be installed before or after the installation of the polyurethane concrete depending on the specification and or the desired result. The Cove Base can be used to create a simple cant cove as well.
 - Pour Part A into a mixing pail with the mixer running. Add Powder Pigment bag to the Part A and mix for 15 seconds. Add Part B and mix for an additional 15 seconds. Gradually add the contents of the Part C Fill Material into the liquid mixture and blend thoroughly until all particles are wetted out (approximately 2 minutes).
 - Apply immediately after mixing
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Application

- Immediately after mixing (within 3 minutes), spread the mixed product onto the floor at the desired thickness, using a cam rake or trowel. Approximately 3/16" (4763 µm) for a 1/4" (6350 µm) finished floor.
- Lay abutting edges within 10 minutes to ensure a clean edge. A "wet edge" installation is imperative during large placements to avoid lines and ridges in the finished floor.
- Evenly apply to desired thickness while trying to keep cam rake lines to a minimum. Backroll across slurry with spike/loop roller to help settle aggregates and blend cam rake lines. Further roll perpendicular to cam rake lines over entire floor to even and settle slurry prior to broadcasting.
- If Broadcasting: Broadcast 20/40 mesh or larger natural or colored quartz to rejection onto the wet slurry. Do not broadcast onto the wet edge area until settling and backrolling is complete. Continue broadcasting until no wet areas remain. 20/40 Mesh or larger broadcast sand is recommended. Do not use fine sand or "sugar" sand, fine sands can cause an un-even finish, and increase chance of outgassing bubbles in topcoat.
- After curing (approximately 6 hours to withstand foot traffic), remove all excess broadcast media and scrape floor as required.
- Apply specified topcoat to lock system and achieve desired slip resistance.

Material temperature

- Material temperature during application should be between 50°F (10°C) and 80°F (27°C)

Pot life

15 minutes at 77°F (25°C)

Cleaning procedure

- Clean tools and equipment with acetone or other solvent based cleaners
- Fully cured material can only be removed from equipment or surfaces through mechanical methods

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Compressive strength (ASTM C579)	7,200 psi (49,642 kPa)
Tensile Strength (ASTM C307)	1,050 psi (7,240 kPa)
Flexural Strength (ASTM C580)	2,700 psi (18,616 kPa)
Bond strength (ASTM D4541)	100% Concrete Failure
Impact Strength (ASTM D4226)	>160 in-lb (18.1 Nm)
Resistance to Fungi Growth (ASTM G21)	Passes, Rating of 1

Note:

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

Curing Time			
Substrate temperature	Open to Foot Traffic	Return to Service	Full cure
77°F (25°C)	6 hours	24 hours	7 days

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 PPG representative 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 & 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.

WARRANTY

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AVAILABILITY OF PACKAGING

Packaging

- 1/2-gallon containers
 - 1-gallon containers
 - 5-gallon containers
 - 250-gallon containers
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