

Perdure UMC SC

urethane concrete primer/sealer



DESCRIPTION

Perdure UMC SC/Primer is a urethane modified concrete primer/sealer. It bonds tenaciously to properly prepared substrates. It is used as primer and/or sealer over Perdure UMC TG or UMC SL systems. As a primer it reduces chances of out gassing and pin holes in UMC TG or SL systems. An integral cove base can be installed in areas requiring seamless wall to floor transitions. It is a great choice for wet areas like those typically found in dairies, food processing areas, commercial kitchens, breweries, bakeries, etc.

ADVANTAGES

- Suitable for high impact, thermal shock and high traffic areas
- Excellent Chemical resistance
- Low odor for use in occupied areas
- Does not support growth of fungus or bacteria
- Moisture vapor resistant – 15lbs/1000ft²/24hr & 95% RH
- Meets USGBC – LEED criteria for low VOC
- Rapid on step application for fast return to service on properly prepared substrates

SUBSTRATE REQUIREMENTS

- Should be applied when temperature is between 50°F and 80°F
- Substrate must be free from condensation or water contamination during application and cure
- Concrete Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Expansion joints in the substrate must be honored
- Movement of substrate cracks may transmit through the system
- CSP of 4 or 5 is required for proper bonding

INSTALLATION

Mixing Perdure UMC SC

- a. Set up the mixing station as close to the work area as possible. Exothermic heat will be generated, and flash setting may occur if material remains in the mixing pail for longer than 10 minutes.
- b. One kit of Perdure UMC SC consists 4 components including the color pack. Pour Part I and Part II into an empty pail and mix for 30 seconds. Add the Pigment pack while mixing Part I and Part II.
- c. Add Part III slowly to the mix while continuously mixing the liquid components. Mix all the components for 3 to 4 minutes. Ensure thorough mixing of all the components without changing their proportions.
- d. The mixing bucket and mixing paddle should be scraped thoroughly and cleaned with solvents like MEK or Xylene after mixing 2 to 3 kits. If plastic pail is used for mixing dispose the bucket after every 3 to 4 mixes. Use a brand-new mixing pail ever 3 to 4 mixes when plastic pails are used.

Application

Perdure UMC SC is installed using a notched squeegee or a steel trowel. It is applied at 15 to 20 mil primer or sealer. It is allowed to dry for 8 to 10 hours before proceeding with the next step.

COMPOSITION

Perdure UMC SC is a blend of polyol and isocyanate and finely grade mineral fillers.

COLOR SELECTION

Refer to Perdure UMC Color chart.

COVERAGE

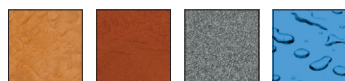
1 kit of Perdure UMC SC covers 100 to 125ft² at 15 to 20 mil thickness.

CURE/DRY TIME

Working Life	10 to 15 minutes @ 75°F, 50% RH
Recoat	6 to 8 hours @ 75°F, 50% RH
Light foot traffic	8 to 10 hours @ 75°F, 50% RH
Light Vehicular traffic	16 to 24 hours @ 75°F, 50% RH
Full cure & Max resistance	3 to 5 days @ 75°F, 50% RH

PHYSICAL PROPERTIES

Flammability	ASTM D635	Self-Extinguishing
Fungus & Bacteria Growth	MIL F 52505 4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests
Hardness, Shore D	ASTM D2240	80-85
Adhesion to Concrete	ASTM D7240	300-400 psi (concrete failure)
Water Absorption	ASTM D570	0.10%
Abrasion Resistance	ASTM D4060 / CS17 Wheel, 1000 cycles	50mg
Thermal Coefficient of Friction	ASTM C531	1.1 X 10 ⁻⁵ in/in/per °F
Service Temperature Resistance		-50 to 240°F wet, 280°F wet intermittent, 350°F dry
VOC	EPA Method 24	0.0g/L, compliant to low VOC Rule 1113 in all 50 states



düraamen engineered products, inc.

20 Haypress Road, Suite 323 Cranbury, NJ 08512 | duraamen.com | info@duraamen.com | 1.866.835.6595

AVAILABILITY

Perdure UMC SC is available throughout the United States and Canada. Contact Dūraamen representative in your area for details.

MAINTENANCE

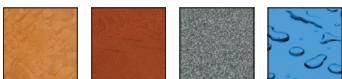
After completing the application of Perdure UMC SC, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Perdure UMC SC is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.

TECHNICAL SERVICE

Dūraamen Engineered Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

WARRANTY

Information regarding Duraamen products is based upon extensive research provided by the supplier of the raw materials. By making such information available, Duraamen Engineered Products Inc. does not assume any liability beyond express terms of our standard limited material warranty. Duraamen Engineered Products does not warrant the accuracy or completeness of any such information, whether conveyed orally or in writing, but to the best of our knowledge believe it to be accurate. We reserve the right at any time and without notice to update or improve our products and process for the intended use or application. Duraamen Engineered Products (Duraamen) warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Duraamen. If any product fails to meet this warranty, the liability of Duraamen will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Duraamen within 1 (one) year of delivery of materials. Duraamen may in its discretion refund the price received by Duraamen in lieu of replacing the material. No customer, distributor, or representative of Duraamen is authorized to change or modify the published specifications of this warranty in anyway. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Duraamen reserves the right to inspect the non-conforming material prior to replacement EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR PURPOSE. DURAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DURAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



dūraamen engineered products, inc.

20 Haypress Road, Suite 323 Cranbury, NJ 08512 | duraamen.com | info@duraamen.com | 1.866.835.6595