

Perdüre U50(HS)

technical data sheet

düraamen

engineered to perform

DESCRIPTION

Perdüre U50(HS) is a two component, chemical resistant, high solids aliphatic polyurethane coating. It is a very low VOC top coat that meets all federal and state environmental air quality standards. The high gloss or satin finish offers excellent abrasion resistance, chemical and stain resistance. It can be used equally well on vertical or horizontal surfaces. It is ideal for flooring systems in warehouses, storage facilities, vehicle maintenance facilities, aircraft hangars, animal housing, restrooms, restaurants and numerous other coating applications. It is available in clear and pigmented, gloss and satin formulations.

ADVANTAGES

- Excellent abrasion, chemical and stain resistance
- Superior hot-tyre pick-up resistance
- Suitable for both exterior and interior applications
- May be used for both horizontal and vertical applications
- Compliant to low VOC air regulations
- Low odor

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 50°F and relative humidity below 85% for proper curing.
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Cure times will be extended in conditions of high humidity and poor ventilation

COMPOSITION

Perdüre U50(HS) is a two component, chemical resistant aliphatic polyurethane sealer or top coat.

COLOR SELECTION

Perdüre U50(HS) is available in CLEAR and limited pigmented formulations. Custom colors are available subject to laboratory approval, minimum quantity, lead time for production and increased cost.

APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in Düraamen's technical Bulletin #1. Work must be performed by trained or experienced contractors or maintenance personnel.

INSTALLATION STEPS

Mix each component of Perdüre U50(HS) prior to combining them together. Mix 4 parts of Part A and 1 Part B. Perdüre U50(HS) is usually applied with a short nap roller, or squeegee and back-rolled with a short nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling. Perdüre U50(HS) must be aggressively sanded prior to application of a second coat.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer thinner. Consult MSDS for safety and health precautions.

COVERAGE

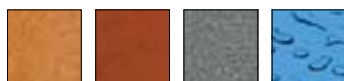
Perdüre U50(HS) yields 400ft² per gallon at 3 mils dry film thickness. Applying thicker than 3 mil in one pass may result in bubbles or pin holes.

AVAILABILITY

Perdüre U50(HS) is available throughout the United States and Canada.

MAINTENANCE

After completing the installation, the applicator should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Perdüre U50(HS) is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Treating the surface with a floor finish (Smärtgard) is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.



düraamen engineered products, inc.

116 West 23rd Street, 5th Floor, New York, NY 10011 | duraamen.com | info@duraamen.com | 1.866.835.6595

TECHNICAL SERVICE

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

TECHNICAL DATA

Hardness (ASTM D3363 Pencil)	2H to 3H
Abrasion Resistance ASTM D4060	10-20mgs/1000cycles, CS-17 wheel
Solids Content – Clear	90% (Clear), 93%(pigmented)
VOC	100gm/lt
DFT	2.5mils @ 500ft ² /gal application rate
Pot life	45min @ 75°F, 50% RH
Dry to Touch	5-7hr @ 75°F, 50% RH
Re-coat	8-10hr @ 75°F, 50% RH
Light Traffic	24 hours @ 75°F
Full Cure	5-7 days

CHEMICAL RESISTANCE CHART

REAGENT	RATING
Acetic Acid – 5%	L
Acetone	L
Betadine	R
Beer	R
Brake Fluid	R
Bleach	L
Citric Acid – 30%	R
Citric Acid – 40%	L
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid – 15%	R
Lactic Acid – 15%	R
Lactic Acid – 50%	L
Methyl Ethyl Ketone	L
Nitric Acid – 10%	R
Orange Juice	R
Peroxide – 35%	R
Phosphoric Acid – 85%	L
Skydrol	R
Sodium Hydroxide – 50%	R
Sulfuric Acid – 20%	R
Toluene	R
Urea	R
Vinegar	L
Xylene	L
Iodine	

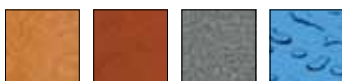
R – Recommended for continuous service

L – Limited recommendation, occasional spills

* - May cause slight stain or discoloration

WARRANTY

Düraamen Engineered Products, Inc. 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 Düraamen. If any product fails to meet this warranty, the liability of Düraamen will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Düraamen within (1) one year of delivery of materials. Düraamen may in its discretion refund the price received by Düraamen in lieu of replacing the material. No customer, distributor or representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Düraamen. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Düraamen 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 OF MERCHANTABILITY OR FITNESS FOR PURPOSE. DÜRAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DÜRAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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