

RIO-COAT UHG

High Solids Urethane, Gloss

PRODUCT DESCRIPTION

RIO-COAT UHG is a high solids moisture cured urethane coating. It can be applied clear or pigmented with no filler leaving a high gloss smooth finish, glass beads can be added to provide non-slip, better abrasion resistance with high gloss or aluminum oxide can be added to provide the highest abrasion resistance. The addition of more aluminum oxide will provide a satin finish while adding less will give a gloss finish.

APPLICATIONS

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TYPICAL PROPERTIES			
Mixed Components	50°F	70°F	90°F
Working time (min):	30-40	20-25	15-20
Dry to Touch (hrs):	8-12	6-8	4-5
Maximum Re-coat must be buffed.			
Floor installation temperature limits: 50°F - 90°F (min to max).			
Property	Results	Test Method	
Odor:	Mild		
VOC Content:	2 g/l	ASTM D7668-12	
Pencil Hardness:	5H	ASTM D3363	
Cross-Hatch Adhesion:	5B	ASTM D3359	
Tensile Strength:	110400%		
Elongation:	16%		
Pot life (once mixed):	75 min		
Working time:	20 min		

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

BENEFITS

- Excellent adhesion to substrates and abrasion resistance
- Excellent wetting properties, stain and chemical resistance
- Great choice for all applications where urethane topcoats are being installed
- Extremely low VOC (50 state compliant)
- Minimal to no odor
- User friendly application process
- Non-yellowing, UV stable 100% aliphatic urethane

PACKAGING & COVERAGE

Unit Size Kits: 4:1 by volume

- 1.25 Gal Kit
(Part A-Resin (1 Gal), Part B-Hardener (1 Qt))
- 5 Gal Kit
(Part A-Resin (5 Gal), Part B-Hardener (1 Gal))

Optional Additives:

- If adding Gloss, 1 pint of colorant
- If adding Satin (Part C), 1 quart (1.5 Gal Kit)
- If adding Satin (Part C), 1 Gal (6 Gal Kit)

Coverage:

1.25 Gallon Kit: 550-700 SF (450-550 SF / working gallon)

LIMITATIONS

- RIO-COAT UHG must be applied to a primed or coated floor.
- For the best adhesion the basecoat should be applied within 24 hours and be sanded with an abrasive buffing disc typically carborundum 180 grit. RIO-COAT UHG must be applied no thicker than 4 mils.
- No puddles can be left as the material will gas and create a foam like appearance if thicker films are installed.

INSTALLATION STEPS

PREPARATION

Before you begin: Concrete should be tested for moisture transmission prior to installing any materials. Contact RIO for specific testing methods and ranges prior to installing these materials.

Preparation: Shot blasting or diamond grinding are the preferred methods on concrete. The concrete should be blasted or ground to a 10 to 20 grit sand paper finish. Any oils or contaminants must be removed prior to installation.

MIXING

The materials are packaged in a 1.5 or 6 Gal Kits. The prepackaged units should be mixed as follows: Open the Part A and pour Part B into pail. If Gloss is desired add color if applicable and mix for 2-3 minutes. If Part C Satin is being added add them into the vortex of the mixer and mix for an additional 2-3 minutes.

Temperature affects the pot life and working time of the materials. The higher the temperature the shorter the working time. Do not mix more materials than can be installed within the pot life period.

APPLICATION

- **NO FILLERS** - Immediately pour the mixed material on to the concrete floor and squeegee out the materials at maximum of 4 wet mils if no fillers are being added. The coating should then be back rolled with a chemical resistant roller cover to level the primer and eliminate any puddling. **CARE SHOULD BE TAKEN TO NOT LEAVE ANY PUDDLES.**
- **WITH FILLERS** - Immediately split the bucket into several buckets to be applied by dipping the roller into the pail. A 1-gallon lid with holes punched in it can be placed in the bottom of the pails. This keeps the rollers from touching the bottom of the pails where fillers will settle. Care should be taken to leave puddles or drip marks as they will cure differently.
- Buckets should be switched after several mixes as the material will begin to set up and make it more difficult to roll.

Coverage: Bucket rolled only if the glass beads or aluminum oxide powder is added. If it is being applied without any filler it can be squeegeed and back rolled with a chemical resistant roller cover. Can be applied at thickness 4 mils.

Humidity and Dew Point: RIO-COAT UHG is a moisture cure urethane. Do not install when humidity is below 50% or higher than 80% without contacting RIO. Condensation can occur on the surface of concrete or epoxy when the substrate is below the dew point. This condensation can cause a film of moisture to form on the substrate interfering with adhesion or causing a blush. Check dew point temperatures prior to applying any materials. Any hazing of the film or greasy feeling may indicate a blush contact RIO prior to proceeding.

Curing:

Mixed components	50°F	70°F	90°F
Working time (min):	30-40	20-25	15-20
Dry to Touch (hrs):	8-12	6-8	4-5

Maximum Re-coat must be buffed.

Floor installation temperature limits: 50°F - 90°F (min to max).

Cleaning: Any mixing and application equipment should be cleaned immediately upon completion of the job. Xylene can be used to clean all the equipment.

STORAGE, SHELF LIFE AND DISPOSAL

Disposal: All materials should be disposed of in accordance with all Federal, State or Local regulations.

Storage and Shelf Life: All materials should be stored in original – unopened containers in an enclosed building out of direct sunlight. Ideally the materials should be between 60-80°F for 24 hours prior to installation. Installation of materials at temperatures outside of this range may make them difficult to install. The shelf life in unopened containers is a minimum of 1 year. Consult RIO Coatings if you have any concerns about materials.

SAFETY

Follow recommendations for ventilation. Avoid contact with eyes or skin. Skin contact requires washing immediately with soap and water. Eye contact requires immediately flushing eyes with water. Please consult physician. If clothes become contaminated remove and wash prior to wearing again. These materials are for industrial use only.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.