Armor UTN60 High Gloss Industrial Coating

Foundation Armor
472 Amherst Street #14
Nashua, NH 03063
(866) 306-0246
FoundationArmor.com
For Professional Use

PRODUCT DESCRIPTION

The Armor UTN60 is a commercial grade, solvent-based, high gloss aliphatic urethane coating designed to enhance and protect a variety of interior surfaces from surface abrasion, oil and gas, and harsh liquids and chemicals. It is a fantastic coating for interior warehouse floors, garage floors, and more.

BENEFITS/FEATURES

- Provides a long-lasting, UV stable high gloss finish
- Reduces deterioration caused by surface abrasion
- Offers excellent long term wear resistance
- Stops concrete surface stains
- Resists oil, gas, harsh liquids, and chemicals
- Easy to apply and maintain
- Can provide up to 10 years of life before the need for a recoat
- Stops concrete dusting

SUGGESTED APPLICATIONS

- Interior concrete floors that have been diamond-ground to a 25-80 grit finish (concrete surface profile 3).
- Garage and shop floors, aircraft hangar floors
- Warehouse and manufacturing plant floors
- Kennel floors
- Retail and showroom floors

TECHNICAL INFORMATION

Abrasion Resistance……..……..35 mg loss
(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)
Gloss 60…….....90-95
Flexibility (1/8" Mandrel).....Pass
Hardness - Shore D.....62
Water Resistance.....Excellent
Solids % Weight (Federal Spec. TTP-141B).....60%
Density lbs/Ga. (Federal Spec. TTP-141B).....8.49
VOC ……..< 250 g/l

Mix Ratio (a/b volume).....2 to 1
Coverage (3-5 mils dft.)..... .....250-340 sq. ft./ga
Viscosity.....400-600 cps
Pot Life.....25-30 minutes
Dry Time-Set to Touch…….....8-10 hours
Dry Time-Recoat….....10 - 14 hours
Dry Time-Foot Traffic.....24 - 36 hours
Dry Time-Wheel Traffic.....3 - 5 days
Application temperature…..…….…….....55-85 degrees F

CHEMICAL RESISTANCE

NO EFFECT: Urine, Blood, Xylene, Gasoline, Oil, Skydrol B-4, Ethylene Glycol, MEK, 10% and 50% Sodium Hydroxide, 25% Sulfuric Acid, 25% Acetic Acid, 20% Nitric Acid, 10% Hydrochloric Acid.

PLEASE NOTE: A chemical exposure test should always be performed prior to application to ensure satisfactory resistance to specific chemicals..

COVERAGE

First Coat (Mixed 3-gallon kit)	750-900 ft^2 /3 gallon kit
Second Coat (Mixed 3-gallon kit)	800-1000 ft^2 /3 gallon kit

Coverage rates will vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

SHELF LIFE

When properly sealed and stored, the shelf life of the UTN60 is up to 1 year.

PACKAGING

The Armor UTN60 is available in 3 Gallon Kits and 15 Gallon Kits.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION: Surface preparation is key to the success and life of the UTN60. UTN60 must be applied to fully cured unsealed interior concrete that has been properly prepped with a diamond grinder to a 25-80 grit finish (concrete surface profile 3). Surface needs to be completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating.

If applying the Armor UTN60 as a top coat over the Armor Epoxy Primer, UTN60 must be applied within the recoat window of the Armor Epoxy. If applying the UTN60 to an existing coating, it is important to first speak with a Foundation Armor Technician regarding compatibility, required surface preparation and application.

Product Mixing
Clear UTN60: Slow drill mix 2 Parts A with 1 Part B in a clean 5 gallon pail. Mix for 60-90 seconds, or until material is thoroughly blended and homogenous. Avoid whipping air into the coating. Improper mixing can result in coating failure.

UTN60 w/Color Pack: Before adding in Part B, slow drill mix color into pre-mixed Part A for roughly 30 seconds. 4.5-6 oz. of color should be added to each gallon of material. For example, if you are mixing a 3 gallon UTN60 kit, you would mix in a total of 13.5-18 oz of color. Once the color has been mixed into Part A, add in Part B and slow drill mix for 60-90 seconds, or until material is thoroughly blended and homogenous. When applying the UTN60 in a color, you may see small areas of concrete through the first coat of material. Applying a second color coat will help to achieve a consistent opaque surface finish.

Non-Slip Additive: For added surface traction, the Armor Non-Slip additive can be added. The ultra-fine, fine, and coarse Armor Non-Slip additives works best in the Armor UTX60. Applying the Ultra-Fine: Slowly drill mix 3-6.5 ounces of non-slip additive per gallon, until completely blended, then apply. For Fine and Coarse: When applying the second coat, add the non-slip additive to the coating using a broadcast spreader, and back roll to encapsulate the non-slip additive.

DuraTrac Additive: Slowly drill mix the DuraTrac additive into the fully mixed, ready to apply UTN60. If applying in color, ensure the color has been mixed in as well. While 5 ounces of DuraTrac per gallon of UTN60 is suggested, you can add up to 32 ounces of DuraTrac for every 1 gallon of UTN60. Please note, the more DuraTrac you add, the more cautious you need to be to avoid clumping. If clumping occurs, too much DuraTrac has been added. DuraTrac can also slightly reduce the gloss level. Testing in a small area is strongly suggested in order to determine the appropriate amount of DuraTrac necessary for your application.

Please note, do not apply both the Armor Non-Slip Additive and the DuraTrac Additive. Only one should be applied per application.

Product Application
Apply the mixed material using a 3/8" shed-less nap roller. It is important to apply within estimated pot life and recommended temperature guidelines. Please note that pot life may vary. If the material becomes thick while applying, or starts sticking to the roller , stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours you must wait 5-7 days to allow the coating to cure. Once 5-7 days has passed, a light sanding using an 80 grit screen pad (and a thorough surface cleaning) is required prior to applying an additional coat to ensure adequate coat adhesion.

Blending roller lines: When rolling the UTN60 it is considered a best practice to lift the roller at the end of the stroke so there are no roller lines/stop lines. Applying the UTN60 is very similar to applying paint, be sure to always maintain a wet edge. Work fast, but controlled, you only have about 25-30 minutes of working time before the pot life is reached.

Applying UTN60 outside of the suggested parameters may result in application failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

The applicator is responsible for suitability of application, and the results of the application. We suggest applying to a test area first to verify compatibility, absorption, coverage rate, and project suitability.

Clean-Up
Use MEK. Dispose of containers in accordance with local and federal regulations.

Product-Removal
Dried, cured sealer may be removed with the Armor CR100, or by using a diamond grinding method, sandblasting method or similar mechanical action.

PRECAUTIONS AND LIMITATIONS

- Concrete must be cured for at least 60 days.
- Coverage rates depend upon many conditions including application method, surface porosity, and applicator.
- Armor UTN60 should be applied in thin coats, it is not designed as a high build coating. Do not puddle. Do not attempt to apply large amounts of material in an attempt to fill in concrete cracks, holes, divots, or surface imperfections.
- Be aware that this product may be slippery when wet. Non-Slip additives are available.
- Armor UTN60 may darken the surface of many new and existing concrete substrates. Test prior to use.
- Physical properties listed on this technical data sheet are typical values, not specifications.
- Do not let sweat or other liquids come into contact with the uncured coating.
- Do not apply to exterior concrete surfaces. Do not apply to anything other than interior poured and properly prepped concrete
- Appropriate personal protective equipment is necessary to prevent injury. This may include, but is not limited to, gloves, goggles, respirator, etc. Refer to the Safety Data Sheet prior to use.
- Store at temperatures above 40 degrees Fahrenheit. Shelf life when properly stores is 1 year.
- If applying over an existing coating, proper adhesion and compatibility tests are essential.
- In this application the substrate preparation, application, performance and all other liabilities are strictly the end user's responsibility.
- A chemical exposure test should always be performed prior to application to ensure satisfactory resistance to specific chemicals.
- When applying indoors, odors are strong so room should be properly ventilated during the time of application, and for 7 or more days after, to allow for solvents to fully release. HVAC ducts should be blocked to avoid distribution.
- Foundation Armor offers no guarantee, warranty or other claims to the success or results of a job or project.
- A chemical exposure test should always be performed prior to application to ensure satisfactory resistance to specific chemicals.
- The applicator is responsible for suitability of application, and the results of the application. We suggest applying to a test area first to verify compatibility, absorption, coverage rate, and project suitability. Applicator is also responsible for ensuring product meets local VOC regulations, and any and all other regulations that may apply.
- In all cases, refer to the Safety Data Sheet prior to application for complete health and safety information. Do not swallow, avoid direct contact with skin, avoid inhalation, keep out of reach of children and pets.