



6000 URETHANE WB

40% SOLIDS, GLOSS FINISH, WATER-BASED URETHANE TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Products' 6000 Urethane WB is a high gloss, two-component, water based aliphatic polyurethane with excellent color enhancement properties. This high performance material has excellent adhesion and hardness properties as well as abrasion, hot tire & chemical resistance. **6000 Urethane WB** is low VOC and low odor with multiple uses.

BENEFITS

- Low Viscosity
- Can Be Tinted
- Chemical Resistance
- VOC Complaint
- Low Odor
- Excellent Abrasion Resistance
- Commercial/Retail
- Meets OTC, CARB, LADCO & SCAQMD VOC restrictions
- Gloss Finish
- Hot Tire Resistance
- USDA Accepted

RECOMMENDED APPLICATIONS

6000 Urethane WB is effective on many interior applications such as grind & seal, over Vintage America Acid Stain & Flash Dye, garages & shops, showrooms & offices and anywhere a low odor, abrasion resistant, gloss finish coating is required. Excellent for use as an institutional coating, heavy duty maintenance coating and in high traffic areas.

TECHNICAL INFORMATION

Abrasion Resistance.....	38 - 40 mg loss	Mix Ratio (a/b volume).....	4 to 1
(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load) Gloss	Gloss Finish	Coverage (3-4 mils).....	200 - 300 sq ft/gal
Flexibility (1/8" Mandrel).....	Pass	Pot Life (50% R.H. @ 72° F).....	30 min
Pendulum Hardness, sec.(ASTM D-4336).....	175	Dry Time-Set to Touch (50% R.H. @ 72° F).....	5 - 6 hours
Water Resistance.....	Excellent	Dry Time-Recoat (50% R.H. @ 72° F).....	6-12 hours
Solids % Weight (Federal Spec. TTP-141B).....	40%	Dry Time-Light Traffic (50% R.H. @ 72° F).....	16-20 hours
VOC	< 100 grams per liter	Dry Time-Full Cure (heavy traffic) (50% R.H. @ 72° F).....	7 days
		Application temp.....	50-80°F w/relative humidity <75%

CHEMICAL RESISTANCE

Urine.....	No Effect	10% Sodium Hydroxide.....	No Effect
Blood.....	No Effect	50% Sodium Hydroxide.....	No Effect
Brake Fluid.....	No Effect	25% Sulfuric Acid.....	No Effect
Xylene.....	No Effect	25% Acetic Acid.....	No Effect
Gasoline.....	No Effect	20% Nitric Acid.....	No Effect
Skydrol B-4.....	No Effect	10% Hydrochloric Acid.....	No Effect
Ethylene Glycol.....	No Effect	MEK.....	Film Softened

** A chemical exposure test should always be performed prior to application to ensure satisfactory resistance.

STORAGE & SHELF LIFE

Store product in an area so as to bring the material to room temperature within the recommended application temperature range before applying. Long term storage should be between 60°F and 90°F. Keep from freezing. **6000 Urethane WB** has a shelf life of at least one year in it's original, sealed, unopened container.

PACKAGING

6000 Urethane WB is packaged in 1.25 gallon and 2.5 gallon kits.

SURFACE PREPARATION: Mechanical scarification, acid-etching & neutralizing, or diamond grinding is recommended. To ensure adequate adhesion, the substrate can be primed with an epoxy primer such as our **Epoxy 1040**, be free of all dirt, oil, dust and foreign contaminants and applied within the recommended recoat time of the primer used. Prior to application of the primer a test should be made to determine that the concrete has an acceptable vapor barrier. This can be done by placing a 4' X 4' plastic sheet on the substrate and completely taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of hydrostatic pressure problems that may later cause loss of adhesion. Adhesion tests are recommended prior to using.

MIXING: Pour a full pre-packaged kit of 4 Parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer for 2-3 minutes or until the material is thoroughly mixed and homogenous. Water Based two-part systems need to be mixed well for adequate cure and a streak free finish. Always pre-mix Part A and Part B separately before mixing together.

APPLICATION: Apply the mixed material by brush or **1/4" mohair roller ONLY** at a rate of 4 to 6 wet mils, within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. Use of a nap roller may cause orange peeling. If there is continuous outgassing causing bubbles, re-roll the material using a cross rolling method before the material cures to reduce or eliminate air entrapment. If the material becomes thick while applying and 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! Remove any excess material in joints or low lying areas. Puddled areas may not cure adequately and may cause blush or a white haze. If recoating after 18 hours (temperature depending) a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

NOTE: Applying **6000 Urethane WB** outside of the suggested parameters may result in job failure. It is always recommended to test the product in an 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. 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 users responsibility. Kingdom Products offers no guarantee, warranty or other claims to the success or results of the job under these circumstances.

CLEAN-UP & PRODUCT REMOVAL

Use MEK or Acetone. Dispose of containers in accordance with local and federal regulations. Dried, cured urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shot blasting, etc.

PRECAUTIONS AND LIMITATIONS

- All new concrete must be cured for at least 28 days prior to application.
- This product will freeze during storage if not stored at temperatures above 40°F.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoors, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply this product over carpet, tile or other types of floor adhesives.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Improper thinning may cause sealer to delaminate in a short time frame. Thinning is NOT recommended.
- **6000 Urethane WB** should be applied in thin coats. Do not allow to puddle.
- Be aware that this product may be slippery when wet & anti-slip additives may be needed to reduce slip hazards.
- **6000 Urethane WB** 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.

SPECIAL NOTES

Please consult Safety Data Sheet (SDS) and Warranty information prior to use. **FOR PROFESSIONAL USE ONLY!**