

# LEGGARI

# WB URETHANE

## Technical Data Sheet

### PRODUCT DESCRIPTION

Leggari WB Urethane is a 100% UV stable, water-based top coat that will not amber. It is extremely durable and is designed to be a high strength finish over epoxy, concrete overlays, and standard concrete among other things. WB Urethane protects surfaces from harmful UV rays, scratches and wear. It is available in a High Gloss or Matte finish and has an optional Grit Additive for more extreme environments where added scratch and damage control is desired. Leggari WB Urethane is extremely easy to apply and can be re-coated within 1 hour in certain applications.

#### USES

Leggari WB Urethane is specified as the finish coat in moderate to severe chemical environments or in heavy traffic areas. Due to the low odor of the water-based polyurethane, it is user friendly and ideal for interior or exterior applications. Apply WB Urethane as a top coat over plain concrete, concrete overlay, stained concrete flooring and epoxy coatings. Use on decorative floors, garage floors, industrial floors, restaurant floors and automotive service areas, countertops, and much more.

##### Packaging

- 20 oz kit
- 1 gal kit

##### Finishes

- Gloss
- Matte

#### ADVANTAGES

- Water-based
- Low Odor
- Zero VOC
- UV Stable
- Impact and Abrasion Resistant
- Easy to Clean
- Enhances Color
- Clear - Non-yellowing
- Good Working Time
- Improved Dry Time
- Excellent Adhesion
- USDA & FDA Compliant
- Gloss and Matte options
- Available grit additive for even more durability

#### INSPECTION/PREPARATION

##### INSPECTION

The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The surface must be porous or rough enough to allow the product to soak in and/or bond properly.

##### PREPARATION FOR EXISTING CONCRETE

Prepare surface by scrubbing, sanding, grinding, water-blasting, sandblasting or shot blasting to achieve a clean, porous, and uniform surface that will allow product to soak in and bond permanently. As a top coat over Concrete Overlay or Leggari Metallic epoxy, apply directly over the surface. If texture has been left for more than 24 hours or it has become dirty, clean as needed prior to the application of the WB Urethane.

Note: The most common reason for coating failure is due to lack of preparation.

- As a final coat over Leggari Metallic epoxy WB Urethane must be applied within 24 hours. If more than 24 hours have past, lightly sand the surface with 220 grit or higher and wipe with water prior to the application.
- Make sure surface is completely dry and free from cloth fibers before application.

#### APPLICATION

##### COVERAGE

###### 20 oz kit

50-80 sq ft per 20 oz kit depending on the porousness of the surface.

###### 1 gal kit

400-800 sq ft per 1 gal kit depending on the porousness of the surface.

##### PRIOR TO APPLICATION

For best results, watch the Leggari tutorial videos.

- Acclimate the WB Urethane to room temperature, preferably 70 degrees for interior applications and for exterior applications apply when temperature is cooler, below 80 degrees and the product is cooled down.

\* DO NOT store in the sun.



## APPLYING PRODUCT

For best results, refer to our video tutorial and installation guidelines specific to your project prior to application.

### Mixing

#### 20 oz kit

In a clean quart mixing container pour in Part A and Part B. Mix Part A and Part B together with a paint stir stick for 3-4 minutes scraping the edges and bottom with the stir stick. Pour 2 oz. of clean cold water into the mixed Urethane and mix for another minute. If using the grit additive: After the water is added, add the grit and continue to mix the Urethane for another minute.

#### 1 gallon kit

In a clean bucket pour in Part A and Part B. Mix Part A and Part B together at low RPM using an electric drill for 3-4 minutes scraping the edges and bottom with a stir stick. With the drill spinning at a low RPM slowly pour 13 oz. of clean cold water into the mixed Urethane and mix for another minute.

- **If using the grit additive:** After the water is added, with the drill still spinning at a low RPM slowly add the grit and continue to mix the Urethane for another minute.

### Dry Time

Leggari WB Urethane Should be dry to the touch within 12-24 hours depending on the ambient temperature of the area. Normal foot traffic can be permitted as soon as the WB Urethane is dry to the touch, typically within 24 hours @ 70°F. Vehicle traffic can be permitted around 48-72 hours. All dry times are based on average temperature of 70°F and 50% humidity.

## LIMITATIONS

- Do not apply in temperatures below 50°F or above 80°F. Hot or cold weather will effect dry times.
- Do not apply in windy conditions, even a ceiling fan can cause frustration when rolling out because it speeds up dry times.
- Do not apply over damp surfaces.
- WB Urethane must be cured for a minimum of 48 hours before coming in contact with water.
- Do not allow any Leggari Products to freeze.

## PHYSICAL PROPERTIES

Chemical Composition	Water-Based Polyurethane
Density (#/gal)	9.1
Specific Gravity	1.1
Gloss @ 60 Degree	>80
Solids %/wt	60.0
Solids %/vol	56.0
PVC (Pigment to Volume Concentration)	NA
Viscosity cPs	700
Viscosity KU	76
VOC gm/l	<50
Shelf Life	1 year
Flash Point	NA

## RE-COATING

### Counters

A countertop can be re-coated once the first coat has went clear for about 20 minutes. The countertop will still be extremely tacky, this is ok—just don't touch the counter with your fingers. Use the same roller as the first coat and reapply the top coat using the same technique as first coat, overlapping a few inches each section you're rolling at a time.

\* **Note:** If you don't use the same roller as the first coat, you run the risk of leaving roller hairs in the finish.

### Floors

Since floors require walking on the surface you must wait until the floor is not tacky to the touch, typically about 12 hours at 70°F. Once you can walk on the floor re-coat using the same technique as the first coat.

\* **NOTE:** If the floor is small and you can reach the entire area without walking on it you are welcome to apply the second coat as soon as the first coat has went clear for about 20 minutes.

\* **WARNING:** Don't walk on the floor using spike shoes to apply the second coat of WB Urethane. The floor is still fresh and you run the risk of leaving permanent dents in the floor from the spikes.

### Clean up

Equipment should be cleaned with water immediately after use. If cured, material can only be removed with acetone or mechanically.

## HEALTH PRECAUTIONS

-Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Avoid contact with skin and wear protective gloves and eye protection.  
-Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause damage to respiratory system, lungs, eyes, and central nervous system. Read Safety Data Sheets before using.

## TECHNICAL DATA

Pot Life (Gel Time) 150gm @ 72°F	1.5-3 hr.
Tack Free over concrete (@ 6 mil) @ 72°F	4 hr.
Foot Traffic - 1st coat - over concrete @ 72°F	8 hr.
Foot Traffic - sealed surface - @ 72°F	12-16 hr.
Full Cure (@ 6 mil)	72 hr.
Pencil Hardness	2H
Adhesion on Concrete (7 day cure ASTM D3359)	5
Sag & Leveling ASTM D4400	4
Reducer/Clean Up	Water



## CHEMICAL RESISTANCE

Muratic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2XO4)	1
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5s
Ketchup	5
Red Wine	5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

### KEY:

5 = Best (no effect)  
4 = Softens (recovers)  
3 = Softens (no recovery)  
2 = Blistered (no recovery)  
1 = Worst Destroyed  
s = With Stain  
\*Contact time > 5 hrs = 1

## DISCLAIMER

PRODUCT FAILURE DUE TO IMPROPER INSTALLATION OR DEVIATION FROM THE RECOMMENDED USES &/OR APPLICATIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO COVER THE PRODUCT COST, AND LABOR.

IN THE CASE OF A PRODUCT DEFECT BEING THE REASON, A JOINT WARRANTY WOULD COME INTO EFFECT. IF THIS WERE TO TAKE PLACE LEGGARI PRODUCTS LLC WOULD REPLACE THE PRODUCTS SOLD (NOT TOOLS & EQUIPMENT) AND THE CONTRACTOR OR INSTALLER WOULD COVER THE LABOR.

Prepared by:  
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