

LEGGARI

LIQUID POLYMER

Technical Data Sheet

PRODUCT DESCRIPTION

Leggari Concrete Overlay System is a two-component protective coating system that is extremely durable and can be applied to a variety of surfaces. It is designed to bring back the original appearance of concrete, make boring concrete decorative, turn a boring wall into a concrete wall, renew old counters into concrete countertops, among other possibilities. The “system” consists of powder from either our Texture Coat or Scratch Coat that is then mixed with our Liquid Polymer and applied in many different ways depending on the desired finish. Leggari Overlay also makes for a great protective coat for anything concrete protecting the structure of the concrete from weather—allowing for a greater life span no matter the environment.

APPLICATIONS

- Concrete restoration and protection projects
- Resurfacing flawed or discolored concrete
- Bridge parapets and abutments
- Concrete elements in marine environments
- Renovations to stadiums and arenas
- Can be applied over concrete, masonry, wood, tile, formica, metal, and many other surfaces natural or man made things
- Renovations to stadiums, arenas, driveways, sidewalks, balconies, breezeways, pool decks and patios
- Secondary containment and water tank linings
- Countertops, Garages, Sport Courts
- Walls

PACKAGING AND COLOR

- Liquid Polymer: 5 gallon pail
- Mix with: Leggari Gray Texture Coat (55 Lb. Bag)
Leggari White Texture Coat (55 Lb. Bag)
Leggari Gray Scratch Coat (40 Lb. Bag)
Leggari White Scratch Coat (40 Lb. Bag)

COVERAGE RATES

Theoretical coverage per unit:
One coat Application.....500 sq. ft. @ 1/32" (31.25 mils)
Two Coat Application.....250 sq. ft. @ 1/16" (62.50 mils)
Three Coat Application.....166 sq. ft. @ 3/32" (93.75 mils)

Approximate Yield/Unit: 1.25 cu. ft. (Texture coat powder only)

*Actual consumption rates are dependent on many factors including, but not limited to, substrates texture and porosity, variations in applied thickness and normal allowance for waste.

ADVANTAGES

- NSF-61 Certified for use in potable water.
- Moisture vapor permeable – reduces potential for corrosion.
- Protects against penetration of water, chlorides and CO2.
- Ideal for exterior/interior, pedestrian and vehicular traffic.
- Enhances appearance and curb appeal of concrete & masonry.
- Excellent adhesion to most substrates.
- Extensive choice of colors, textures and patterns.
- Zero VOC – meets LEED point criteria.
- Slip resistance built-in with most application methods.

MIX RATIO

Texture Coat: 5 Gal Liquid Polymer : 2 bags of Leggari Texture Coat Powder (Gray or White)

Scratch Coat: 5 Gal Liquid Polymer with 2 bags of Leggari Scratch Coat Powder (Gray or White)

SHELF LIFE AND STORAGE

Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.



MIXING AND APPLICATION

Surface Preparation

All surfaces to be coated must be clean, sound and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a CSP-3 or higher is required depending on overall substrate conditions and coating requirements. Concrete and other porous or absorptive substrates should be (SSD) saturated surface dry with no standing water at the time of the Leggari Concrete Overlay application to the substrate.

Mixing

Leggari Concrete Overlay must be mixed mechanically using a low-speed drill with a "Jiffy-type" or similar Leggari-approved mixing paddle in a clean mixing container. Pre-mix Liquid Polymer first to re-disperse any polymer solids that may have settled on the bottom of the pail.

When mixing Leggari Concrete Overlay, always pour the Liquid Polymer component into the mixing pail first and slowly add the powder component. The mix ratio of powder to liquid may be slightly modified depending on whether a slurry or trowel-grade consistency is desired. Thoroughly mix the Leggari Concrete Overlay until a uniform smooth consistency is achieved that is free of lumps and pockets of dry powder.

Application

Leggari Concrete Overlay can be applied using a roller, brush, broom, trowel, magic trowel, squeegee or spray equipment. Apply Leggari Concrete Overlay only on properly prepared substrates, and be sure that all voids and bug holes are properly filled by working material into the substrate.

Limitations

- May reflect moving cracks and control joints. Implement detail as per current published installation guidelines (IG's).
- Staining, streaking and efflorescence may occur when fresh coating is exposed to excessive ponding or running water.
- Prevent any contact with aluminum which can cause an adverse reaction due to Leggari Concrete Overlay's cementitious content.

For Best Results

- Always install a minimum 4' by 4' test area or job site mock up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation.
- Verify that the most current versions of product technical data sheets (PTDS), safety data sheets (SDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Protect materials at all times from excessive heat and cold.
- Regularly check wet film thickness with mil gauge and monitor product consumption to ensure correct application thicknesses are obtained.
- The proper application of this product is the sole responsibility of the end user. Supervision and quality control are the sole responsibility of the user.
- Measure surface and ambient temperatures to ensure that material is only applied when surface temperatures range between 40°F (4.5°C) and 90°F (32.2°C) during mixing, placement and time of application.
- As with concrete and other cementitious or masonry products, surface staining and tire marking may occur. Apply a clear film-forming or penetrating sealer to enhance stain resistance, cleanability and minimize tire marking. We recommend Leggari WB Sealer or Leggari Natural Seal.
- Gray and pigmented cementitious coatings may exhibit color variegation due to fluctuating evaporation rates during cure.



TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

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| Working Life | 15-60 minutes (temperature dependent) |
| Recoat Time | 1-4 hours or when dry |
| Open to Traffic | 12-24 hours |
| Adhesion: ASTM C-882, Type 1 | 515 psi |
| Tensile Strength: ASTM C190 | 450 psi |
| Compressive Strength: ASTM C109 | 2,440 psi |
| Water Vapor Permeability: ASTM E96 | 1.96 perms/in |
| Water Absorption: Weight gain of 4" coated concrete cube after 21 days water immersion (CMCH) | <2% |
| Freeze-Thaw Resistance – 50 Cycles | No scaling/peeling/flaking (Concrete cylinders immersed for 8 hrs. in coated saltwater solution followed by 16 hrs. of freezing.) |
| Weathering: ASTM G23 | No visible degradation (Method I Procedure, 60 cycles) |
| Resistance to Wind Driven Rain | Fed. Spec. TT-C-558: (8hrs) Fed. Spec. TT-C-0035 (24 hrs) At 5" water pressure and 60 gal/hr water flow, no water or dampness noted on back of test panels. |
| Resistance to Hydrocarbon Substances: ASTM D1308 | (Spot Open Test) No softening or attack – after 21 days Repeated re-application of gasoline, SAE-10 motor oil and jet fuel |
| Impact Resistance: MIL-D-3134, Para.4.7.3 | 2 lb steel ball dropped from 8' height onto coated steel plate: No cracking or detachment |
| Flammable Properties: ASTM E84 | Flame spread – 4 Smoke Density – 0 |
| Fire Resistance UL790 | Complies as Class A |
| Potable Water Compatibility | NSF/ANSI Compliant |

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:
Revision Date:

LEGGARI PRODUCTS LLC
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