

# LEGGARI SCRATCH COAT

## Technical Data Sheet

### PRODUCT DESCRIPTION

Leggari Scratch Coat is an extremely durable cementitious blend designed to mix into our Liquid Polymer. Scratch Coat is designed to be applied after a layer of our Texture Coat to create a smooth surface. Scratch Coat is made from the same blend as our Texture Coat, minus the marble. We also offer the ability to pigment the Scratch Coat using our Basic Pigments for even more options and color schemes (White Scratch Coat is recommended when pigmenting). This is the same Scratch Coat used in our Concrete Overlay Countertop Kits as well as our concrete wall technique.

#### ADVANTAGES

- A unique blend of polymers, cement, and more
- Industrial Grade
- 100% UV Stable
- Flexible
- Can handle radical freeze-thaw cycles
- Breathable allowing for moisture emissions
- NSF-61 Certified for use in potable water
- Moisture vapor permeable-reduces potential for corrosion
- Slip resistance built-in with most application methods
- Zero VOC-meets LEED point criteria
- Excellent adhesion to most substrates

#### COVERAGE RATES

• Coverage rate varies depending on how much the first layer of Texture Coat is sanded. Typically between 250-1,000+ sq ft per bag.

#### PACKAGING AND COLOR

- 40 Lb. Bag
- Color Choices: White and Gray

#### SAFETY

Review current Safety Data Sheet(s) and all relevant documentation before installation. Safety conditions and personal protective equipment must be considered before using any Leggari® product.

#### MIXING AND APPLICATION

##### SURFACE PREPARATION

Before installing any Leggari product, substrate must be clean, profiled, sound, and dry without standing water. Refer to Surface Preparation in individual Installation Guides.

##### MIXING

All materials must be mixed mechanically using a low-speed drill with a paddle mixer. Pre-mix Liquid Polymer first to re-disperse any Polymer solids that may have settled on the bottom of the pail. When mixing, always pour the Liquid Polymer component into the mixing pail first and slowly add the Scratch Coat. Thoroughly mix the material until a uniform smooth consistency is achieved that is free of lumps and pockets of dry Scratch Coat powder.

#### 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
- Driveways, sidewalks, balconies, and breezeways
- Pool decks and patios
- Use with Leggari Liquid Polymer
- Walls
- Secondary containment and water tank linings

#### SHELF LIFE AND STORAGE

One year from the date of manufacture when unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

#### MIX RATIO

- One 40 Lb. Bag to 2.5 gallons Liquid Polymer
- Two 40 Lb. Bags to 5 gallons Liquid Polymer



## APPLICATION

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

## FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock-up or owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation.
- Upon the completion of concrete surface preparation, it is highly recommended to perform in-situ adhesion tests for verification of acceptable substrate tensile strength. Consult ICRI Guideline No. 210.3R-2013 for conducting pull-off tests to evaluate suitable bond of concrete surface materials.
- Prior to application perform concrete surface repair
- Verify that the most current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Protect materials at all times from excessive heat and cold.
- Precondition Liquid Polymer and Scratch Coat between 55°F(4.5°C) to 80°F(4.5°C) prior to mixing application.
- 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 temperatures are 40°F (4.5°C) and rising during placement and cure time.
- 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, clean-ability and minimize tire marking.
- Natural gray and pigmented cementitious coatings may exhibit color variegation due to fluctuating evaporation rates during cure.

## LIMITATIONS

- Expect reflection of dynamic cracks and control joints in substrate. 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.
- Avoid the application of solvent-based sealers or coatings until MPC has been allowed to cure for a minimum of 72 hours under normal temperature and relative humidity conditions.
- As with all cement-based materials, avoid any contact with aluminum which can cause an adverse reaction
- Concrete structures or elements containing hydrophobic crystalline admixtures may result in substrates that will be difficult to produce acceptable adhesion. Perform in-situ pull-off testing to verify suitable and measurable tensile bond strengths.
- Use extreme caution when resurfacing scaled concrete surfaces in freeze-thaw zones due to the potential for insufficient air-entrainment. These types of unsound surfaces may continue to scale at the bond line due to migration of ground moisture.
- Reported product technical data published in this document is based on controlled laboratory tests conducted in controlled conditions. Actual field installed properties may vary due to climatic conditions, mixing and application methods, equipment, application and curing conditions, and independent test methods.
- After a heavy, pro-longed downpour or following pressure-washing operations concrete substrates should be allowed to sufficiently vacate excess moisture prior to proceeding with the application.

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

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%
Elongation: ASTM D412	12%
Shore Hardness: ASTM D2240	Durometer A - 82
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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