



Ultimate Linings

UL ES 2111 **Waterborne Aliphatic Urethane** **Polyurea Topcoat**

DESCRIPTION **UL ES 2111** is a waterborne polymeric dispersion of U.V.-stable aliphatic polyurea, and aliphatic polyurethane polymers. This waterborne coating has been specially formulated as a durable, color-stable, abrasion resistant coating for concrete and masonry surfaces.

UL ES 2111 possesses an excellent balance of tensile strength, flexibility, toughness and abrasion resistance. The flexibility built into the polymer structure allows the coating to move with the substrate in conditions of temperature extremes and where vibration and heavy floor traffic occur. It can also be used as a top coating over polyurethane and epoxy seal coats and base membranes.

SPECIFICATION GUIDELINES Polymer type: Waterborne Polyurea urethane dispersion. Weight per gallon: 8.5 lbs. per gallon. Hazard classification: Nonhazardous, non-flammable HMIS rating: Health 1 Flammability 0 Reactivity 0 Precautions: Wear rubber gloves when handling. Appearance: Milky white liquid, dries clear. may be Architecturally Toned. Tinted colors dry slightly darker than when wet.

PHYSICAL PROPERTIES Coefficient of Friction (ASTM D1894, MIL-W-504C) Dry, Static – 0.68, Dry, Kinetic – 0.60 Wet, Static – 0.77 Wet, Kinetic – 0.63 vides a total spread rate of 90 to 120 square feet per gallon. The first coat is applied with a medium nap roller, fairly heavily, working the wet material into the substrate and using the amount of material that will absorb into the substrate. Often during the drying and curing cycle, the product continues to absorb, leaving the surface only partially sealed. The second and if necessary third coats will absorb into the concrete and seal it completely. When coating over a membrane coating, two coats at about 75 sq. ft. per gallon are recommended. If texture or aggregate is present, be sure to evenly cover the texture on each coat. Allow the Sealer to dry for a minimum of 1 hour between coats depending upon heat and humidity. Allow 24 hours for light traffic and 48 hours for heavy traffic.

HANDLING AND STORAGE **UL ES 2111** is dispersed in water, and therefore can be thinned by slowly adding purified water with thorough mixing. Only minor thinning should ever be needed. Thinning will increase the drying and curing time. Equipment can be cleaned with soapy water **before the coating dries**. If the coating is left to dry it is very difficult to remove.

UL ES 2111 is not freeze/ thaw stable, ie, do not allow to freeze. For best shelf life store it between 40°F and 100°F. Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

Abrasion Resistance (ASTM D 4060) CS 17 Wheels w/ 1000 grams at 1000 cycles 0.005 grams weight lost **Ultraviolet Light Exposure** 4000 hours UV B, 100°F. Free film tested. Very slight yellowing of coating film, no loss of elasticity, slight loss of gloss. No loss of tensile/ elongation properties. **Tensile/Elongation** (ASTM D 412) 5000 psi + 400 psi tensile strength 200% + 50% elongation at break

SURFACE PREPARATION All concrete surfaces must be sound and free from curing agents, mold release agents, laitance and all other contamination. In a small area, test to see that Coating absorbs readily into the concrete surface. If the surface appears to be blocking the absorption of the Sealer, it is necessary to abrade the surface with a drum sander, disk sander or shot blaster to remove the top layer. Remove all abraded concrete powder, and insure that the surface is clean and dry. When used as a top coat over polyurethane or epoxy coatings, the following apply: Epoxy coating must be top coated within 24 hours of initial application. Surface must be clean and free of all contamination and possible exudation – which can occur when epoxies are cured in cool or damp conditions. Polyurethane coatings can be top coated as soon as the base is cured enough to walk on. If kept clean and covered, the polyurethane base can be top coated any time within one week after initial application.

APPLICATION INSTRUCTION Apply to surfaces at temperatures between 60° and 85°F. For surface temperatures outside of these parameters consult PSI technical service. Depending on the texture and openness of the substrate, ie. concrete, two to three coats are required. This provides a total spread rate of 90 to 120 square feet per gallon. The first coat is applied with a medium nap roller, fairly heavily, working the wet material into the substrate and using the amount of material that will absorb into the substrate. Often during the drying and curing cycle, the product continues to absorb, leaving the surface only partially sealed. The second and if necessary third coats will absorb into the concrete and seal it completely. When coating over a membrane coating, two coats at about 75 sq. ft. per gallon are recommended. If texture or aggregate is present, be sure to evenly cover the texture on each coat. Allow the Sealer to dry for a minimum of 1 hour between coats depending upon heat and humidity. Allow 24 hours for light traffic and 48 hours for heavy traffic.

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Limited Warranty

Ultimate Linings Products warrants its products to be free from manufacturing defects and that they will meet Ultimate Linings Products current published physical properties. Ultimate Linings Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Ultimate Linings Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Sellers and manufacturers sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Ultimate Linings Products of any nature whatsoever expressed or implied, including any warranty of merchantability of fitness for particular purpose in connection with this product. Ultimate Linings Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Ultimate Linings Products shall not be responsible for use of this product in a manner of infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Ultimate Linings Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his product for his own intended use, application and job situation on the user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones, which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ultimate Linings Products makes no claim that these tests or any other tests accurately represent all environments.

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