

Texture Spray Overlay

Durável TSO is a heavy-duty decorative texture cement overlay system which is designed to beautify old and new concrete alike. Using the latest single-component technologies, Durável TSO has been engineered to lead the industry in compressive strength, durability, adhesion, and ease of use. Durável TSO is a self-bonding add water-only white Portland cement-based composite that can be integrally colored in the field. Durável TSO can be applied using conventional concrete tools such as a squeegee, assorted trowels, or hopper gun to create multiple textures and finishes. Texture options include knockdown and stencil finishes and extraordinary surfaces that can replicate real stone, slate, or even wood surfaces with the use of In-Fluence Stain™ colors and sealer. Durável TSO will handle all residential and commercial traffic, including light vehicular traffic. The single-component bag mixes are available in two formulations: warm weather and cold weather.

Typical Uses:

Range of Textures:

- **Knockdown**
- **Stencil and Grout Designs**
- **Multicolor Spray Texture**
- **Bubble Finish**
- **Slate Texture**
- **Wood Finish**

Product Advantages:

- **High compressive strength**
- **Just-add-water formula, self-bonding**
- **Range of color options**
- **Range of texture options**
- **Resists freeze-thaw cycling**
- **Restores safe non-slip texture**

Coverage:

The typical application rate as smoothing base coat over repaired or smooth surfaces is approximately 150-200 square feet per bag. The coverage rate for textures ranges from 120 to 200 square feet per bag.

Water Demand:

4 to 5.5 Qt (4.7 to 6.2 L)

Cure Times:

Initial Set - 2 to 6 hrs.

Full Cure - 28 days

Pot Life:

30 mins.

Application Temperature:

45° to 90° F (7° to 32° C)

VOC:

Less than 10 g/L

Packaging:

50 lb (22.7 kg) bags (approx. 0.46 CF)

Warm and Cool Weather Formulas

FOR PROFESSIONAL USE ONLY

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Storage:

Store unopened bags in a cool, dry location. Protect from excessive humidity. The opened product should be stored in tightly sealed containers.

Directions for Use:

Substrate Preparation:

SOUND: Concrete that is failing due to poor placement or extensive environmental abuse should be replaced, not repaired. Cracks and joints in concrete should always be treated as moving, with the possibility they will continue moving after the overlay is placed, leading to cracking of the overlay. Expansion joints must always be honored since they allow movement in the slab. Large holes and divots in the surface should be filled in lifts, or with a suitable material. Flexible joint sealants should only be applied after the overlay is completed and cured. Expectations should be set with the client before the commencement of the project so they understand that the overlay, when bonded properly, will move as the concrete substrate does.

CURED: All concrete must be sufficiently cured to allow for proper hydration. The recommended cure time is 28 days, depending on temperature and humidity.

CLEAN: Surfaces to be overlaid should be free of contaminants and readily accept water. All potential contaminants on the surface must be removed, including but not limited to: dust, dirt, oil, grease, paints, glues, sealer, curing agents, releases, efflorescence, chemical contaminants, rust, or algae. Even if grinding is the preferred preparation method, it is critical to clean the surface first to keep from pushing contaminants into the pores of the concrete during the grinding process.

PROFILED: Acid etching is not an acceptable option for smooth or power-troweled surfaces. A water drop test should be performed to ensure water quickly penetrates the surface and darkens it. If water beads on the surface for longer than 15 seconds the concrete is not porous and must be mechanically profiled by shot blasting or diamond grinding. Concrete must be profiled to a CSP-2 or CSP-3 for proper bonding. The surface must be cleaned entirely after the mechanical preparation process; remove all dust.

ENVIRONMENTAL CONDITIONS: The substrate temperature during application and curing must be between 45 and 90 deg. F (7 and 32 C). Excessive wind and/or sun exposure may adversely affect hydration and cure. Schedule exterior work to protect the overlay from rain for twelve hours after the application is completed.

Tinting Instructions:

Durável TSO is manufactured with white cement. Overlay Color Pack pigment may be added to the mix water to integrally color the product.

Mixing Instructions:

Mix single bags in clean 5-gallon pails with a helical mixing blade. Water demand varies with environmental conditions and application technique, between 4 and 5.5 quarts per bag (2.8 to 5.2 liters). For best results and longest pot life use clean, cold water – run hot water out of hoses prior to using for mixing – and keep bags cool by not storing in direct sun. Measure mix water into mixing vessel. When applicable, add pigment to the water and thoroughly blend prior to adding bag mix. While mixing slowly, add the bag contents then mix to a lump-free consistency. Make sure to scrape any

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unmixed product from the sides and bottom of the mixing vessel. Mixed product should be applied promptly and kept out of direct sunlight (if possible) to extend working time. If the product stiffens in the bucket dispose of the mix, do not add more water.

Application Instructions:

When troweling: pre-wet substrate to Saturated Surface Damp (SSD), and continue wetting as needed during product application. Pour out mixed product onto the substrate in ribbons over the immediate work area then spread evenly with trowels and/or squeegees. Under normal conditions, the mixed product has a +/- thirty-minute pot life so it is not necessary to pour out the entire mix at once. See the Coverage Rate above.

When spraying: keep the substrate dry. Mask off and protect adjacent surfaces. Use a hopper gun or compressed air sprayer to apply mixed product to the desired texture. The compressor should be rated 5.0 CFM or higher for a consistent application. Hopper application pressure is typically 40 PSI from the compressor then adjusted manually at the valve and nozzle size to control desired texture. Coverage ranges from 120 to 200 square feet per bag depending on texture applied.

Do not apply Durável TSO in locations which are permanently submerged.

Clean Up:

Clean tools and mixing vessels with water. Capture runoff as necessary to protect downstream surfaces. If needed, remove product from adjacent surfaces before it dries. Dried product may be loosened with light acids; test an inconspicuous spot to ensure that the surface is not damaged by the cleaning process.

Maintenance:

Durável TSO must be finished with a clear or colored sealer. Follow the maintenance instructions for the selected sealer.

Cured Physical Properties:

DENSITY: 108 pounds/ft³ (1,730 kg/m³)

COMPRESSIVE STRENGTH: ASTM C-109: 6,128 PSI at 28 days (42,251 kPa)

FLEXURAL STRENGTH: ASTM C-348: 800 PSI at 28 days (5,516 kPa)

TENSILE STRENGTH: ASTM C-190: 910 PSI at 28 days (6,274 kPa)

ABRASION RESISTANCE: ASTM D-4060:

1 day = 1 gram lost | 7 days = 1 gram lost

SHEAR BOND: ASTM C-882, Modified / mortar scrubbed into the substrate

7 days = 1,232 PSI (8,494 kPa) | 28 days = 1,695 PSI (11,686 kPa)

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Slip Resistance Disclaimer:

Notice: The Occupational Safety and Health Administration (OSHA) and the American Disabilities Act (ADA) have set enforceable standards for slip-fall protection on walking surfaces. The ADA standards are the more stringent and require a minimum coefficient of friction (CoF) on level walking surfaces of 0.6 and on ramped walking surfaces of 0.8. The system applicator / end user assumes all responsibility to provide a flooring system that meets all current safety standards. Neither Durável nor its selling agents will be responsible for any injury that may be incurred in a slip-fall accident. Furthermore, Durável recommends the use of slip-resistant aggregate in all coatings or floor systems that could possibly be exposed to wet conditions or become contaminated with oils, grease, or other lubricants.

Disposal:

Disposal of product and packaging should be in accordance with applicable regional, national and local laws and regulations.

Shelf Life:

Generally, one year from date of manufacture in original, unopened packaging stored at room temperature. Shelf life may be extended with reasonable care and protection during storage.

Limitations:

This product is not intended for public use and is intended for use by qualified contractors and installers with proper experience and training in the use of these products, and that have read the complete safety data sheet. Apply product only when substrate and ambient temperatures are within the accepted range and to substrates that are a minimum of five degrees above dew point and will remain so during product cure. During application and cure protect product from all contaminants and traffic.

Warranty:

IMPORTANT!

Before using all Durável products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT Duravel.com FOR THE LATEST VERSION

Disclaimer:

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated. It may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Durável assumes no responsibility for injury to the vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the datasheet. Furthermore, Durável

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assumes no responsibility for injury caused by the abnormal use of this material, even if reasonable safety precautions are followed.

Safety Instructions:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, boots, protective clothing, and face protection.

DANGER!

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Prop65 Warning: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



Always Review SDS & Technical Data Prior to Use

REV 11.21.2022