

Stamp Concrete Overlay

Durável SOM™ is a polymer modified cement coating that is easy to use when creating beautiful stamped concrete surfaces over existing plain concrete. Durável SOM™ can be added to any sound, non-moving, and clean concrete with minimal height gain. Common hand tools are used to create natural-looking surfaces like Stone, Slate, Brick, Cobblestone, Wood Plank, using stamp texture tools designed to work with an overlay. Add Durável OCP™ overlay color packs and In-Fluence™ water based stains to recreate a natural appearance. Durável SOM™ may be installed on both interior or exterior projects and is suitable for freeze thaw climates. With a compressive strength over 4500 psi, Durável SOM™ is suitable for pedestrian or vehicular traffic in residential or commercial settings.

Range of Textures:

Use stamp overlay pattern mats and texture skins to create beautiful surfaces including natural stone, brick, slate and wood. Durável SOM carves easily into any custom pattern the project requires.

Product Advantages

- User Friendly Just Add Water Mix
- Wide Range of Color Options
- Freeze-Thaw Compatible
- High Compressive Strength
- Minimal Height Gain

Water Demand:

3.5 to 4.0 Qt (3.3 to 3.8 L)

Cure Times:

Initial Set - 4 to 8 hrs.

Full Cure - 28 days

Pot Life:

20-25 minutes.

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 Cold Weather Formulas

Coverage:

17 square feet per bag at 3/8" thick for use with pattern mats

23 square feet per bag at 1/4" thick for use with texture skins

Storage:

Store in a secure location, accessible by authorized persons only. Protect from contact with water, moisture, and humidity. Keep out of reach of children. Store away from food and animal feed. Keep away from incompatible substances such as strong acids.

FOR PROFESSIONAL USE ONLY

Technical Data Sheet

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 SOM™ is manufactured with white cement. Add one Overlay Color Pack to the mix water to modify the overlay color.

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 3.5 and 4.0 quarts per bag (3.3 to 3.8 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 the contents of one Overlay Color Pack 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 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.

Technical Data Sheet

Application Instructions:

Durável SOM™ requires a bond coat of Durável LBA™. Follow the application instructions in the LBA technical data sheet.

When the LBA™ is partially dried and tacky, mix and pour Durável SOM™ directly onto the surface. Use a cam rake or gauge rake set to the proper thickness to spread the mix evenly. Follow with a flexible trowel or squeegee to remove rake lines and smooth the product. Avoid displacing the product while smoothing.

Allow Durável SOM™ to start to dry. Keep testing the product for plasticity by pressing on the surface with your finger. When the product is impressed by touch, but no product stays stuck to the finger it is time to stamp. Use a solvent-resistant pump sprayer to apply a light coat of Overlay Liquid Release on the overlay surface and on the stamping texture tools. Do not allow Overlay Liquid Release to puddle or pond, as this may damage the surface when stamping. Place the stamps on the surface when it is ready to support weight and walk in the stamps progressively across the project. The preferred method is to walk in the surface of the stamp thoroughly while feeling the impressing under foot. The use of a concrete tamper is not recommended; aggressive tamping will cause the overlay to lose bond to the substrate.

Note that some concrete pattern mats may have too deep a texture for use with overlay.

Allow Durável SOM™ to set long enough to bear weight. Use hand tools to clean up joints as needed, or to create original patterns like slate and stone. Sweep off any excess material then clean the surface with a 4:1 dilution of Durável ECP™ (4 parts water, 1 part ECP) to remove the Overlay Liquid Release residue. Spray the ECP solution by pump sprayer, brush with a soft bristle brush, then rinse with clean water from a hose. Do not use a pressure washer.

Secondary Color:

Use one or more colors of In-Fluence water base stains for secondary colors as desired.

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

Technical Data Sheet

Cured Physical Properties:

DENSITY: 124.86 pounds/ft³ (2,000 kg/m³)

ADHESION STRENGTH: ASTM D-7234: 785 PSI (5,412 kPa)

COMPRESSIVE STRENGTH: ASTM C-109: 4,566 PSI at 28 days (31,481 kPa)

FLEXURAL STRENGTH: ASTM C-348: 2,048 PSI at 28 days (14,120 kPa)

TENSILE STRENGTH: ASTM C-190: 989 PSI at 28 days (6,819 kPa)

ABRASION RESISTANCE: ASTM D-4060:

1 day = 1.25 gram lost **28 day** = 0.59 gram lost

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:

Dispose of contents/container in accordance with local/ regional/ national/ international 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 any Durável product, read and understand its accompanying Safety Data Sheet and Application Instructions for important safety information.

Technical Data Sheet

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 and 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 vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Durável assumes no responsibility for injury caused by 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

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