DURÁVEL®
Products for Professionals

DV-50™

Clear Acrylic Concrete Sealer Concentrate

ACRYLIC SEALERS

Technical Data

Durável DV-50 is a concentrated sealer emulsion that must be diluted with added VOC-compliant solvent before use. DV-50 allows the user to adjust the solids content and gloss level of the concrete sealer to meet the needs of the project.

DV-50 is a crystal-clear, gloss, color-enhancing solvent-based acrylic sealer. It is designed to provide a strong bond to natural concrete and cement-based overlay surfaces. An advanced silane composition helps improve adhesion, increase mar resistance, and make future recoating easier. Pure acrylics help protect surfaces from UV rays, traffic, weather, and deicing salts. DV-50 also improves resistance to many common stains and chemicals.

Use DV-50 on natural concrete, colored concrete, stamped concrete, and decorative overlays. It is vapor permeable, while still helping reduce the penetration of fluids into the surface. DV-50 enhances the appearance of concrete, improves stain and abrasion resistance, and provides UV protection for driveways, walkways, patios, porches, balconies, and other concrete surfaces.

Typical Uses:

- **Natural Concrete and Overlays**
- **Driveways, Walks, Porches, and Patios**
- **Stamped Concrete**
- **Commercial and Residential Concrete**

Product Advantages :

- **Variable Gloss Level**
- **UV Stable Pure Acrylics**
- **Superior Bond to Concrete and Overlay**
- **Resists Salts, Acidic Stains, and Other Damage**

Typical Coverage 180 to 200 sf/gallon (varies with added solvent)
Dry Times vary with added solvent
Tack Free: typically 25 to 60 minutes
Foot Traffic: typically 24 hours
Vehicle Traffic: typically 4 to 5 days

Recoat Interval: 2 to 24 hours

Application Temperature, Substrate: 40° to 90° F (7 to 32C)

VOC Content: varies with added solvent

Packaging: 5-gallon pails

Coverage:

Coverage will vary depending on the added solvents, application method, and surface porosity. Typically, one gallon will cover about 180–200 sq. ft. of concrete or overlay.

Sealer should always be applied in thin coats to maximize coating strength and durability.

For new applications, apply two coats. For clean and reseal applications, one protective coat over an existing compatible sealer may be all that is needed.

FOR PROFESSIONAL USE ONLY

Directions for Use:

Moisture Testing:

Excessive moisture vapor transmission, or MVT, from the surface can cause clouding or blushing in the sealer. MVT can also carry calcium and lime to the surface of the coating, leaving white-colored solids behind. These effects do not mean the product has failed, and they can often be corrected.

For solvent-based sealer, use Restore-A-Seal, other approved solvents, and/or a mild acidic wash with Durável ECP. Water-based sealer should only be treated with a mild acid wash. Solvents will damage water-based coatings.

All Durável sealers should be applied over concrete or overlayments that are dry and at least 5°F warmer than the dew point.

Substrate Preparation:

SOUND: Do not apply any coating to a surface that is flaking, spalling, or failing. Any damaged or failing areas must be properly repaired or replaced before applying the sealer.

CURED: All concrete must be cured long enough for proper hydration. The recommended cure time is 28 days, depending on temperature and humidity. Concrete may cure faster or slower based on jobsite conditions. Always make sure the concrete is properly cured before applying repair mortar or coatings.

CLEAN: Remove all possible contaminants from the surface before applying sealer. This includes dust, dirt, oil, grease, paint, glue, non-acrylic sealers, curing agents, releases, efflorescence, chemical contaminants, rust, algae, and any other material that could interfere with bonding. Any of these contaminants can prevent the new sealer from properly bonding to the existing surface.

PROFILED: Surface profile guidelines are established by the International Concrete Repair Institute, or ICRI, in Technical Guideline No. 03732 for Concrete Surface Profile, also called CSP. For this type of application, the surface should be profiled to a CSP-1.

Concrete slabs that have been hard troweled may need more aggressive preparation, such as diamond grinding or shot blasting, to achieve proper adhesion. Most exterior concrete can be cleaned and profiled using Durável ECP and a pressure washer equipped with a turbo tip. For interior slabs, treat the surface with ECP. To control water and splashing, use a rotary buffer with a wet vacuum or a floor scrubber to collect the excess water.

See the Durável ECP technical data sheet for additional instructions.

ALKALINITY: The prepared concrete surface must be at a neutral pH, measuring between 8.0 and 9.5.

Use a pH pencil for the most accurate surface pH reading. If the surface pH is above 9.5, use Durável ECP to lower the pH into the acceptable range. Follow the directions on the ECP technical data sheet. If the surface pH is below 8.0, use an ammonia or baking soda solution to raise the pH into the acceptable range.

ENVIRONMENTAL CONDITIONS: The substrate temperature during application and curing must be between 45°F and 90°F (7°C and 32°C). Excessive wind and/or direct sun exposure may adversely affect hydration and curing. Schedule

exterior applications to protect the mortar from rain for a minimum of two hours after application has been completed.

Mixing Instructions:

DV-50 is a concentrated clear acrylic concrete sealer that must be diluted with additional solvent before use.

The user is responsible for following all applicable environmental laws, regulations, and other requirements. **Durável is not responsible for any violation of environmental or other laws or regulations caused by the use of this product**. Before use, read, understand, and follow the complete Safety Data Sheets for both DV-50 and the selected solvent or solvents. This includes proper use of Personal Protective Equipment, or PPE. DV-50 is a highly flammable liquid and vapor. Use only non-sparking, brushless tools, and take precautions to prevent static discharge.

The following information is provided as a user guide for adding solvent to adjust the solids content of the mixed, usable product. It is the user's responsibility to select the proper solvent or solvents and the correct mix ratio to remain compliant with all applicable environmental laws, regulations, and other requirements.

To convert DV-50 to a 20% solids sealer at <600 g/L VOC:

- 5.0 gallons DV-50
- 3.5 gallons Xylene
- 3.5 gallons VOC-Compliant Solvent
- Net 12.0 gallons useable product

To convert DV-50 to a 30% solids sealer at <600 g/L VOC:

- 5.0 gallons DV-50
- 3.0 gallons Xylene
- Net 8.0 gallons useable product

To convert DV-50 to a 20% solids sealer at <400 g/L VOC

- 5.0 gallons DV-50
- 7.0 gallons VOC-Compliant Solvent
- Net 12.0 gallons useable product

To convert DV-50 to a 30% solids sealer at <400 g/L VOC

- 5.0 gallons DV-50
- 3.0 gallons VOC-Compliant Solvent
- Net 8.0 gallons useable product

Stir the material well before application. After adding solvent, mix slowly for about 2 minutes to fully blend and disperse the solvent into the sealer. Long-term storage may allow the material to separate.

Application Instructions:

Once diluted, the blended DV-50 solution must be applied over a dry surface. Natural concrete must cure for at least 28 days before application. Cement overlays vary, so they must be dry according to the recommendations in their technical data sheet.

Choose the roller nap based on the surface texture. Use a thicker nap on rough or contoured surfaces to help coat the profile without leaving puddles in low areas.

Use:

- 1/2” to 3/4” nap roller on rough or textured surfaces.
- 1/4” to 3/8” nap roller on smooth surfaces.

Always apply DV-50 solution in thin coats to maximize coating strength and durability. DV-50 may be applied directly from a pail or from a roller tray. For even product distribution and to reduce roller lines, cross-roll the wet surface during application.

When using an airless sprayer, the unit should have a minimum discharge capacity of 0.5 gpm. Use a .015” to .019” tip with a 65° fan pattern. For best results, spray consistent passes while maintaining a wet edge. Use a wand extension when needed to keep the spray even, perpendicular to the surface, and within 12 inches of the surface.

Tips and Precautions:

Check the forecast before applying sealer. The surface should stay dry for 24 hours before sealer application and for at least 12 hours after the work is complete. Turn off sprinkler systems during application and keep them off for at least 24 hours after application.

When using a low-slip additive in the sealer, take care to reduce roller lines. Applying sealer when the surface is cooler will increase the working time of the coating and allow more time for cross-rolling. Cross-rolling helps spread the anti-slip material more evenly, creating a more consistent finish.

When applying a coating, trimming and edging should be done while the main surface is being rolled, not ahead of time. Maintain a wet edge as you work so the sealer blends together evenly. If the cut-in areas are done too far in advance, they may dry before the surface coat is rolled. This can create double coating in those areas, which may cause color and sheen differences.

Thin to Win! Applying sealer in two thin coats will produce the best results. Follow the coverage guidelines in the technical data sheet for each sealer. However, the actual coverage will depend on the condition and porosity of the surface. Soft or very porous surfaces will use much more sealer than tight, smooth surfaces.

When recoating over an existing sealer, always test for compatibility between the old sealer and the new sealer. The best practice is to place a paper towel in an inconspicuous area and pour a small amount of xylene over it. After 1–2 minutes, use a gloved finger to move the xylene around on the surface and watch how the existing coating reacts. If the coating turns into a curdled mess and crumbles off the surface, it is most likely a water-based sealer. It should only be recoated with a fresh water-based sealer. If the existing coating wets out and can be moved around with your fingers, check to see if it becomes tacky. The test area should return to its original appearance as it dries. This indicates the coating is most likely a solvent-based sealer and can be recoated with a fresh solvent-based sealer. If the test area is not affected and only becomes cleaner, with no coating material removed, the existing coating is most likely a two-component product. It should not be recoated with a single-component sealer.

Clean Up:

Clean tools, sprayers, and mixing vessels with xylene.

Maintenance:

Keep the coated surface free of sand and abrasives to minimize scratching. Use a pH-balanced cleaner with garden hose pressure water to remove light soils. Pressure washing sealer will reduce its service life. Spills should be cleaned promptly to prevent long term staining.

Calcium and/or lime deposits on the surface of the sealer that result from moisture vapor transmission can be removed with a light dilution of ECP concentrated concrete cleaner. See the ECP technical data sheet for additional instructions.

Surfaces will need to be resealed periodically due to weather exposure and normal wear and tear. The service life of a sealer varies greatly depending on the use of the surface. Typically surfaces will need a single reseal coat every four to five years when the sealer has lost its luster and has started to show signs of wear and tear. Pressure wash the surface first to remove any loose dirt and debris then follow by cleaning with Durável ECP. See the ECP technical data sheet for specific instructions. Follow the Application instructions above. The buildup of too much sealer can lead to premature failure due to excessive MVT being trapped in the layers.

Cured Physical Properties:

Water Repellancy – Excellent

Adhesion to Concrete – 250 psi (concrete failure)

Dry Times vary with added solvent

Tack Free – typically 25 to 60 minutes

Foot Traffic – typically 24 hours

Vehicle Traffic – typically 4 to 5 Days

Chemical Resistance Chart:

Transmission Fluid – Good

Brake Fluid – Dulls

Motor Oil – Good

Ammonia Solution 28% – Excellent

Gasoline – Remove immediately

Windex ® – Excellent

Formula 409 ® – Excellent

Vinegar – Excellent

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 potential lubricants.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Protect from extreme heat and cold.

Disposal:

Recycle and/or dispose of contents and containers in accordance with local, regional, national, and international regulations.

Shelf Life:

Up to one year from original manufacture date when stored in its original, unopened container at room temperature. May be extended with reasonable care.

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.

DV-50 is a concentrated clear acrylic concrete sealer that should be diluted with additional solvents prior to use. Compliance with all applicable environmental and/or other laws and regulations is the responsibility of the user. **Durável will not be held liable in the event environmental and/or other laws and/or regulations are violated through the use of this product!**

Warranty:

IMPORTANT!

Before using any Durável product, 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 Durável.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:

For Professional Use Only

Keep Out of Reach of Children and Animals

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Obtain, read and follow all safety instructions before use. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash hands and arms thoroughly after handling. Do not touch eyes. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF SWALLOWED: Get medical help. IF ON SKIN: wash with plenty of water and soap. IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get emergency medical help. If exposed or concerned, get medical advice. Get medical help if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical help. If eye irritation persists: Get medical help. Take off immediately all contaminated clothing and wash it before reuse.

In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. Collect spillage.

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