



INDUSTRIES, INC.

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DURABAK – M26™ and DURABAK 18 – M26™ Application Tip Sheet

SURFACE PREPARATION

Surface preparation and application instructions for both *DURABAK - M26™* and *DURABAK 18 - M26™* is identical unless otherwise noted.

IMPORTANT – READ CAREFULLY!

DURABAK - M26™ will bond well to properly prepared, clean, thoroughly dry surfaces. On sound-painted surfaces, paint must be fully dried or cured to manufacturer's specifications. The solvents in *DURABAK - M26™* will not soften or attack properly dried or cured paint. For fully-cured two-part epoxy substrates, contact COTE-L Industries or your *DURABAK - M26™* distributor before application.

GENERAL DIRECTIONS

Always thoroughly clean the surface of all oily or waxy contaminants and use recommended cleaning solvent. Leave no residue. **Always do a small test on the substrate to ensure adhesion.**

NOTE: Due to the possibility of slight batch color variations, mix partially used cans of *DURABAK - M26™* with new cans as they are opened during applications.

DO'S AND DON'T'S

DO	Use only Xylene or Fluidar cleaning solvent as last step before applying DURABAK - M26™ , or to thin DURABAK - M26™ if necessary.
DON'T	Clean surfaces with lacquer thinners or any solvent containing alcohol, which will prevent DURABAK - M26™ from curing and bonding.
DO	Clean surface with strong aggressive detergent and rinse thoroughly. Then use Xylene or Fluidar to wipe the surface as a last step. Allow solvent to evaporate.
DON'T	Assume surface is clean unless you have cleaned it according to instructions.
DO	Ensure surface is completely dry and/or catalyzed beforehand.
DO	Test surfaces beforehand for adhesion with DURABAK M26™ .
DON'T	Shake can to mix. (Rubber granules will not mix evenly.)
DO	Stir DURABAK - M26™ thoroughly before application (preferably with an electric mixer) to keep rubber granules in suspension.
DO	Keep DURABAK - M26™ 's rubber granules in suspension by stirring periodically.
DO	Apply DURABAK - M26™ in at least two coats. (Two coats is normally sufficient for most applications.)

SURFACE PREPARATION FOR SPECIAL ADHESION

IMPORTANT – READ CAREFULLY!

The following information is provided as a guide only, because substrates can differ significantly. All surfaces should first be tested to ensure adhesion. Contact COTE-L Industries for test design.

CONCRETE

For best results, NEW concrete should:

- Be fully cured, for at least 28 days.
- Have a brush finish.

- Be hand troweled (if already power troweled, test for adhesion of **DURABAK - M26™**).
- Be thoroughly cleaned with a citric cleaner or equivalent, rinsed with water, and thoroughly dried.
- Be wiped with Xylene or Fluidar and allowed to dry, until solvent has evaporated, immediately before applying **DURABAK - M26™**. (This is recommended, for best results, to ensure there is no remaining residue on the surface.)

NOTE:

- If the new concrete contains plasticizers, a small test for adhesion is essential. A primer may be needed if there is poor adhesion.
- If the concrete is oil-soaked, refer to instructions for oil-soaked concrete (see below).

OLD concrete should:

- Be completely dry before application of **DURABAK - M26™**.
- Be shotblasted, if possible, and rinsed with water.
or
- Be abraded with a scarifying machine (leaving a roughened surface) and brushed off.
or
- Be thoroughly cleaned with muriatic acid wash.
 1. Use 45% to 50% muriatic acid solution mixed with 3 to 4 parts water.
 2. Agitate solution on surface with a hard-bristled deck brush for approximately 10 minutes, to open pores on surface.
 3. Rinse off with a 5% ammonia/water solution to neutralize acid. (Failing to neutralize acid could leave residue which might cause delamination.)
- Be dried completely. If necessary, use a heat source.
- Be brushed off to remove all residue.
- Be wiped well with Xylene or Fluidar immediately before applying **DURABAK - M26™**. Let the Xylene or Fluidar evaporate before applying **DURABAK - M26™**.

NOTE:

- If the old concrete contains plasticizers, a small test for adhesion is essential. A primer may be needed if there is poor adhesion.

OIL-SOAKED CONCRETE

1. Open pores of concrete with muriatic acid and rinse, as above.
2. Apply an oil emulsifier and agitate with deck brush for 10 minutes.
3. Rinse with hot water.
4. Rinse twice with cold water.
5. Dry completely.
6. Wipe with Xylene or Fluidar immediately, and then let the solvent evaporate before applying **DURABAK - M26™**.

NOTE: For chemically-soaked concrete, or other unusually difficult surfaces, contact COTE-L Industries.

SEALED CONCRETE

Sealed concrete should first be tested for **DURABAK - M26™** adhesion:

1. Clean surface thoroughly.
2. Roughen surface.
3. Brush surface off thoroughly.
4. Rinse with water and dry thoroughly.
5. A Xylene or Fluidar wipe is recommended. Let solvent evaporate.
6. Apply **DURABAK - M26™**.
7. If delamination occurs, sealer must be removed by mechanical means (i.e., shot blasting or scarifying).

While it is not usually needed on concrete, a primer can provide enhanced adhesion. Contact **COTE-L Industries** for specific information on surfaces to be primed.

CONCRETE PLUS PRIMER

DURABAK - M26™ exhibits good adhesion to new acrylic and polyurethane primers applied and overcoated to manufacturers recommendations. Check to make sure primer is compatible with one-part moisture-cured polyurethanes. Be sure to apply **DURABAK - M26™** within time specifications of primer manufacturer. Aim for the first third of the recommended window of opportunity for overcoating.

ASPHALT

1. Prime surface with a mineral spirit or water-based driveway sealer according to manufacturer's specifications. Be sure the sealer is compatible with both asphalt and one-part moisture cured polyurethanes.
2. Apply **DURABAK - M26™** when primer is thoroughly dry.

3. For oily asphalt, contact **COTE-L** for proper cross-link primer.

ALUMINUM

1. Abrade to obtain rough surface. May or may not require additional primer. Recommend test for adhesion.
2. If a primer is needed, use an etch primer for aluminum which is compatible with moisture-cured polyurethanes. Apply during the first third of the recommended overcoat window, after the primer is touch dry.

METAL

All smooth metal should be thoroughly cleaned, aggressively roughened and primed with an etch primer which is compatible with moisture-cured polyurethanes. **DURABAK - M26™** adheres well to cured painted metal. Most rough metal surfaces such as pitted rust need not be primed; however, all loose scale should be removed. **COTE-L** recommends that a small area be pre-tested with and without primer. On applications of extreme wear, such as step nosings, a primer is highly recommended.

CAUTION! When priming metal surfaces, the primer must be fully dry before overcoating. Careful attention must be given to manufacturer's recommended window of minimum and maximum time for overcoating primer with polyurethanes. When using primers, a small test must be done to ensure adhesion of primer to **DURABAK - M26™**. Aim for the first third of the recommended window of opportunity for overcoating.

WOOD

If wood texture is rough, it may not require special preparation. For best results, abrade surface of wood with 40-grit sandpaper before applying **DURABAK - M26™**. Some pressure-treated woods may need priming. If in doubt, make a small test application first. **DURABAK - M26™** will bond to wolmanized treated wood without priming.

PAINT AND VARNISH

1. Remove all peeling, cracking or chipping paint.
2. Clean surface thoroughly.
3. For best results, lightly abrade surface with an 80-grit sandpaper.
4. Clean the surface with a good cleaner, such as tri-sodium phosphate (TSP). Test in small area to make sure cleaner isn't softening the painted surface.
5. It is strongly recommended to wipe surface with Xylene or Fluidar before applying **DURABAK - M26™**.
6. In the case of epoxy coatings which become very hard with age, clean, then abrade surface with 40-grit sandpaper. Rinse, dry, and test for adhesion. If poor adhesion occurs, soak with Xylene or Fluidar for 10 minutes, wipe off, roughen, and wipe once more with Xylene or Fluidar.

For more information, contact **COTE-L Industries**.

RUBBER

Clean well using detergent or cleaning solvent, such as rubbing alcohol, to remove all surface release agents. Rinse well and allow to dry. Abrade surface aggressively, wipe off with Xylene or Fluidar, and then apply **DURABAK - M26™**.

NOTE: **DURABAK - M26™** will not bond to chlorinated rubber.

FIBERGLASS

Good adhesion can be obtained on unweathered gel-coated glass, rough fiber, side molded glass, and smooth-mold resin-side glass. Surface should be free of release agents, waxes and other production additives, then roughened well with 40-grit sandpaper to remove all gloss, leaving a high profile surface. To ensure optimal bonding, use an epoxy primer compatible with both fiberglass and moisture-cured polyurethanes. Do a small test for adhesion.

CERAMIC TILE

Remove glaze from tile with a grinder, rinse with water, and let dry. Apply an epoxy primer compatible with ceramic tile and moisture-cured polyurethanes, and let dry thoroughly. Then apply **DURABAK - M26™** within 12 hours.

HOW TO APPLY

DURABAK - M26™ for roller, brush or spray applications, is available in one-quart and one-gallon containers. For volume applications, it is also available in five-gallon containers by special order.

Before applying **DURABAK - M26™**, it is important that the surface to be coated is completely clean and dry. (See Surface Preparation.) Mask all areas not to be coated. Remove masking tape after application of second coat, using a razor knife to cut along the taped edge.

IMPORTANT – READ CAREFULLY!

DURABAK - M26™ contains flammable solvents. Ensure proper ventilation and fire precautions.

ROLLER APPLICATION

Apply **DURABAK - M26™** with special, open-foam stipple roller (only available through **COTE-L Industries**, or an authorized **DURABAK - M26™** dealer). Use only a **DURABAK - M26™** special stipple roller, which is designed to evenly distribute the embedded rubber granules on application – other rollers will cause clumping of the rubber granules. Roller sleeves are available in 9” and 4” sized. One 9” roller sleeve is good for approximately 1 to 1½ gallons.

Apply first coat of **DURABAK - M26™** as a thin coat, to fully cover. When touch dry – usually within 1½ to 3 hours – apply second coat. To avoid “mud cracking” or pooling, do not apply **DURABAK - M26™** too thickly. Between coats, pour a small amount of Xylene or Fluidar over rollers, so rollers will not dry out. Intercoat / curing time may be significantly shortened by the use of the special accelerator (see section on accelerator). Extreme climactic conditions of heat, humidity and cold can shorten or lengthen this period.

BRUSH APPLICATION

DURABAK - M26™ can be applied with a soft paint brush, in two coats at right angles to one another. (**DURABAK - M26™** is not a paint, and should be laid onto the surface, in one direction, not brushed out as an oil or latex paint.) Between coats, clean brush well with Xylene or Fluidar, only. The second coat can be applied as soon as the first coat is touch dry (usually within 1½ to 3 hours). Extreme climactic conditions of heat, humidity and cold can shorten or lengthen this period.

COVERAGE

One quart covers a flat area of about 15 square feet in two coats; one gallon covers approximately 60 square feet with two coats, with a final dry coat thickness of approximately 24 mils.

IMPORTANT ADVICE!

- **DURABAK - M26™** should be stirred thoroughly before applying – preferably with an electric paint mixer attachment – as shaking can will not distribute rubber granules evenly.
- Stir periodically to maintain rubber granules in suspension.
- To avoid “mud cracking” or loss of slip-resistance, do not allow **DURABAK - M26™** to pool.
- **DURABAK - M26™** is a moisture-cured product. An open or partially used can will thicken and eventually become unusable. Seal can well and turn upside down for a few seconds. This will seal any space in the can and may prolong the life of the unused portion of **DURABAK - M26™**. Putting unused portion into a smaller container may help prolong the life of the product, as well. Make sure that the rim of the new container remains free of **DURABAK - M26™** to avoid difficulty in reopening the container.
- If the product thickens slightly, it can be thinned by using up to 15% Xylene or Fluidar without affecting performance.

IMPORTANT:

- Other solvents can cause product failure. Do not dilute product or clean rollers, brushes or spray guns with lacquer or alcohol-based thinners.
- Once the consistency of the product has become pasty and unmixable, it should be discarded. If **DURABAK - M26™** is thick, but still liquid, it can be thinned with Xylene or Fluidar and used.
- Normally, **DURABAK - M26™** can be subjected to light foot traffic within 6 to 12 hours of application. It takes approximately 2 to 4 days to fully cure: less in hot humid conditions, and more in cold dry weather. The coating should not be subjected to cleaning or chemical exposure until fully cured. For specific extreme kinds of loading, consult your **DURABAK - M26™** dealer.

- An accelerator can be used to decrease drying time under the following conditions:

	HOT / HUMID	HOT / DRY	COLD / DRY
DURABAK - M26™	NO	OPTIONAL	OPTIONAL
DURABAK 18 - M26™	NO ¹	NO	OPTIONAL ²

¹ Do not use an accelerator with **DURABAK 18 - M26™** in hot/humid weather. It may increase drying time.

² Please check with COTE-L before using accelerator with **DURABAK 18 - M26™**.

- With **DURABAK - M26™** (but not with **DURABAK 18 - M26™**) an accelerator can be used in dry, cold temperatures, the dry/cure time of **DURABAK - M26™** can be reduced significantly by using COTE-L's accelerator. In hot, humid weather, an accelerator is not necessary. In the case of **DURABAK 18 - M26™**, an accelerator will not work to decrease the drying time.
- PLEASE NOTE that full curing time only affects the amount of time required to wait before subjecting the surface to cleaning and chemical exposure. Surface can be subjected to loading and light foot traffic long before this minimum time requirement.

SPRAY APPLICATION

DURABAK - M26™ can be sprayed using a simple shutz gun, a hopper gun, or professional spray equipment. Make sure to thoroughly mix **DURABAK - M26™**. A drill with a mixing adaptor works best. **DURABAK - M26™** should flow through the spraygun easily and can be thinned with Xylene or Fluidar.

1. COTE-L's shutz gun with a ¼" orifice (and no filter), attached to a 45-60 psi compressor.
 - Attach spray gun to compressor air line, giving pressure of 40 to 60 psi.
2. Use a conventional spray gun, such as Binks #2001, with the following specifications, or equivalent: 67 fluid nozzle; 567 fluid needle; 67 PB air cap; heavy-duty (#54-1372) needle spring; 2-28 teflon fluid packing; ½" I.D. (#71-283) fluid hose with 3/8" connectors (#72-1333), and 3/8" I.D. air line with ¼" connectors (#71-1355).
 - To remove contaminants from the air line, use Oil & Water extractors mounted at the pressure tank.
3. Sears Craftsman No. 15524 (or De Vilbiss AS 300) with external mix nozzle. Requires 7 CFM. Use compressor with 9 CFM at 50 psi. (For more information, call De Vilbiss Air Power Tools at (901) 423-7983.)
4. Airless spraygun: Graco Bulldog 33:1 with air intake pressure = 6-7 bar (90-100 psi). Outlet pressure = 100 bar (+/- 3000 psi). Tip: 0.039 ins (ie 35-39 thou). Delivery rate: 2.9 gallons per minute.

5. For smooth **DURABAK - M26™**, Graco Bulldog 33:1 with 21-23 thou. tip.
 - Use a respirator with chemical absorbing cartridges, such as Binks #40-128.
 - Before starting the job, spray a few short bursts away from the surface to test that everything is working properly.
 - If **DURABAK - M26™** does not spray easily and evenly, thin with Xylene or Fluidar.
 - Spray an even coat over the entire surface to be covered. Be careful not to apply coat too thickly.
 - When surface becomes tacky – between 20 minutes and one hour, depending on weather conditions – spray second coat. Extreme climactic conditions of heat, humidity and cold can shorten or lengthen this period.
 - Intercoat / curing time can be significantly shortened by use of special accelerator (see section on accelerator).

IMPORTANT ADVICE!

- Spraygun manufacturers often change model numbers. Consult individual manufacturers for superceded models.
- Remove any over-spray immediately with Xylene or Fluidar. Once cured, **DURABAK - M26™** is very difficult to remove.
- Solvents released when spraying are flammable. Observe all fire precautions. Proper ventilation is required.
- Clean spray gun between coats and immediately after job is completed. Use only Xylene or Fluidar.

THE CARE AND MAINTENANCE OF **DURABAK - M26™** SURFACES

Once **DURABAK - M26™** coatings have fully cured, they are very easy to maintain. Because **DURABAK - M26™** cures to an impermeable membrane, all dirt sits on the surface.

[CAUTION! If dirt sets in on **DURABAK - M26™** surface while it is soft and before it is cured, it could become permanently imbedded.]

1. Use any general non-chlorinated floor cleaner, from a neutral household cleaner to a degreaser.
2. IMPORTANT! For best results, use a stiff bristled deck brush to agitate cleaner on the surface. [A cotton mop is not recommended since pieces of mop may get caught on high profile of **DURABAK - M26™** surface.] A synthetic fiber material mop may be used if a deck brush is unavailable.
3. Rinse surface thoroughly to remove all residue.
4. Remove all water with a sponge mop, a 24 oz. mop or water vacuum.

ALTERNATE METHODS

For larger areas, where the above method is not time efficient, there are alternatives available to expedite cleaning.

PRESSURE WASHER

A wide-angle water pressure spray of 600-700 PSI can clean **DURABAK - M26™** without damage to the surface.

ROTARY MACHINE

A rotary 14" waxing-type machine with a (thickline) blue pad can be used.

RINSE-FREE DETERGENT

If a rinse-free detergent is used, the dirty water pickup can be done with a water vacuum.

AUTOMATIC SCRUBBERS

DURABAK - M26™ surfaces can also be cleaned with automatic scrubbers. These are machines which, in one pass, put down the washing solution, scrub the floor with a (blue) pad, and vacuum up the dirty water. The pad pressure used in the scrubber (using a blue pad) need only be sufficient for the pad to make light contact with the floor. Heavy scrubbing over time will negatively affect the **DURABAK - M26™** surface.

SPECIFIC CLEANING ISSUES

GREASE SPILLAGE

To clean a **DURABAK - M26™** surface of a greasy or slippery solution, it is necessary to use a slightly more aggressive detergent, containing a degreaser, available from chemical suppliers.

REMOVAL OF STICKY SUBSTANCES

For removal of gum or other sticky substances from a **DURABAK - M26™** surface, use a pressure washer. A wide-angle water-pressure spay of 600 to 700 PSI, at an angle of 35-40 degrees, should enable the removal of gum pieces within 10 to 15 seconds without damage to the **DURABAK - M26™** coating.

REMOVAL OF ORGANIC STAINS

Organic stains, such as leaves, can be removed using a quaternary or a slightly acidic cleaner with a neutral pH. Leave on for five or ten minutes. Rinse off according to manufacturer's recommendations. This will only work if the stain has occurred after **DURABAK - M26™** has fully cured.

CHLORINE

If left on the **DURABAK - M26™** surface, concentrated chlorine will discolor **DURABAK - M26™**. Immediately rinse off the concentrated chlorine with water.

REPAIRING OR OVERCOATING **DURABAK - M26™**

DURABAK - M26™ can easily be repaired or over-coated (once cured), as it bonds to itself.

- Cut out all damaged **DURABAK - M26™** to eliminate uneven edges.
- Clean dirt from area to be repaired and rough up surrounding **DURABAK - M26™** with 60-grit sand paper.
- Clean area with Xylene or Fluidar.
- On exposed surfaces to which **DURABAK - M26™** does not bond easily, a primer may be needed.
- Brush, roll, or spray fresh **DURABAK - M26™** onto cleaned areas, as per application instructions.