



## MonoSET100 COVE

MonoSET100 Cove is a 3-part urethane cement cove base system to provide a seamless floor to wall surface. MonoSET100 Cove flowing system consists of MonoSET100 TCV and MonoSET100 Cove. Suggested Tools:

1. 5-Gallon Metal Mix Container
2. 12" Paint Stick or Spatula
3. Pencil
4. 6" Cove Trowel
5. 3" x 12" Flat Finishing Trowel
6. 3" x 6" Flat Trowel
7. Forced Circulation Pail Mixer
8. High Speed Drill 1000-1500 rpms
9. 3.5" Jiffler Blade
10. 1/2" V-Notch Trowel
11. Duct Tape
12. 18" Porcupine Roller
13. Disposable Paint Brush
14. 4" x 3/8" Nap Roller
15. Cleaning Solvent (Acetone)
16. SET ENVIROSOL-602
17. Spiked Shoes
18. Timer
19. Personal Protection Equipment:
  - i. Long-Sleeved Shirt
  - ii. Long Pants
  - iii. Work Boots
  - iv. Safety Hat (if needed)
  - v. Latex Gloves or Similar
  - vi. Dust Mask (3M N95)
  - vii. Safety Goggles

### Surface Preparation:

The substrate must be sound, solid, profiled and free of materials or contaminants that may act as bond breakers. The concrete surface profile (CSP) number CSP 5 is recommended. If substrate is contaminated, detergent scrub and rinse with clean water to remove surface dirt, oil, grease and any other contaminants.

**For more information see: Surface Preparation Guidelines for MonoSET.**

### General:

Planning: Proper planning is essential to ensure a seamless appearance of the finished floor. Joint lines will show in the finished floor. Lay out installation in sections. Allow full width of area to be completed in 15 minutes or less to assure no placement lines.

### Outlining the Cove Base:

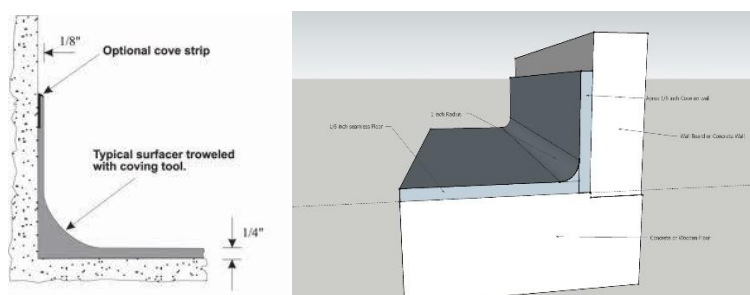
**NOTE: If using the MonoSET100 Cove base system, it is applied to walls before installing any MonoSET100 flooring system.**

Viewing where the wall meets the floor, make sure the area is clean and clear. The top of the cove can be terminated with a cove strip or duct tape. For a 6"1" radius cove trowel, use a 6" cove tool as a guide. Mark the walls with a pencil 1/4" below top of the cove trowel (5<sup>3</sup>/<sub>4</sub>" from the floor). Draw or snap a chalk line. Apply 2" duct tape or cove strip at the line. The bottom (floor line) of the cove can be terminated with duct tape by once again using the cove tool as a guide. Mark the floor with a pencil 1/4" below the edge of the cove trowel. Draw or snap a chalk line. Apply 2" duct tape at the line.



**Important! Priming the wall with MonoSET100 TCV is the most important step prior to installing the cove matrix. This will allow the cove matrix to “hang” on the vertical surface.**

Cove Images:



**Priming:**

**MonoSET100 TCV Mixing Instruction:**

Make sure the installation area is 50–90°F. The material temperature should be at room temperature (72°F). **Important: A stop watch is required during mixing.**

Select a convenient mix area. Protect the surface by covering the selected mix area with a layer of cardboard and/or a sheet of plastic. Make sure there is enough space to move around. The more comfortably your mixer works, the less likely you are to have a “mix error.”

Do not mix this product in direct sunlight or when temperatures exceed 90°F. Higher temperatures will greatly reduce the working time of this product. Make sure all necessary tools; mix and measure containers are ready. **DO NOT MIX UNTIL READY FOR IMMEDIATE USE.**

**IMPORTANT!** Mix only what can be applied in 15 minutes.

MonoSET100 TCV comes in pre-measured units consisting of the following three parts: A component (resin), B component (hardener) and C component (aggregate). All 3 components must be thoroughly mixed.

**Mixing:** A 5-gallon pail is needed. Shake part A thoroughly before opening. Pour part A into the 5-gallon pail. Make sure the entire content of the resin component is completely drained. Mix part A (resin) before adding the Part B (hardener). Add part B. Be sure to get all the material, including any material clinging to the wall of the packaging, into the mixing vessel. Using a high-speed drill equipped with a 3.5” Jiffler mixing paddle pail mixer, thoroughly mix part A and part B for **30 seconds. (A dispersion blade is not recommended).** Gradually add aggregate and mix for **2 minutes** until a homogenous mix is attained (be sure to scrape the sides). Move the blade around to assure the mixture is completely mixed and uniform. **THOROUGH BLENDING IS MANDATORY.** A properly mixed batch is easy to trowel and spread. It will yield a uniform surface appearance. Incomplete mixing will cause an inconsistent finish or possible blistering.

**Important!** *If clumps cannot be mixed in or difficult to mix–STOP. Examine the bag of aggregate for visible clumps or the presence of moisture.*



**CAUTION!** Mix only what can be applied in 10–15 minutes. Do not attempt to re-work the materials after it begins to set. Watch your temperature for ideal working time. Incomplete mixing will cause an inconsistent finish or possible blistering. Replace mix bucket every 10 batches or have multiple mixing buckets ready. Multiple batches are recommended to reduce mix time and keep a wet edge. Clean mixing paddle and pail regularly to avoid mixing fresh material with older materials. This will further reduce irregular curing and/or blisters.

**MonoSET100 TCV Application:**

Using a disposable brush, brush a thin coat of MonoSET100 TCV on the wall and out 1” onto the floor. Excessive amounts of MonoSET100 TCV will cause blistering in finished coving. There should be no sagging/running of TCV. Allow the material to become tacky or wet/tacky before applying the cove matrix. If the primer has cured or is dry to touch, re-prime is necessary.

**Coving:**

**MonoSET100 Cove Mixing Instructions:**

Following the same mix and procedure above BUT using a forced-circulation pail mixer INSTEAD of Jiffler blade, mix MonoSET100 Cove.

**MonoSET100 Cove Application:**

Spread the cove base matrix along the wall outlined earlier while the MonoSET100 TCV primer is still wet/tacky. With a 3”x12” flat finishing trowel, spread the entire cove base matrix along the wall. Leave enough material on the floor to form the cove radius. Then use the cove trowel to form and smooth out the cove base matrix for a smooth finish. Cove trowel may take several passes with the trowel in order to achieve a desired smooth finish. Do not leave rough open spots on the face of the cove. When forming and finishing the cove, lubricate and clean your trowel periodically with ENVIROSOL or desired solvent blend will allow the trowel to glide along the cove base matrix smoothly and tightly close the cove.

**Important:** Clean trowel frequently with solvent to prevent material build up. Please make sure the trowel is dry before using. Check for 1/2” or 5/8” thickness frequently.

**NOTE:** Keep moisture from coming into contact during installation and curing. Water may alter surface appearance. Avoid installing where there is puddling or pooling of water or where drips are nearby, especially during curing. All plumbing or other leaks must be stopped or diverted prior to commencing work.

**Clean Up the Cove Area:**

Pull the Duct tape after the material has set for 15–20 minutes. Remove any excess cove base matrix from the floor or along the wall. Using a clean disposal brush, dip the brush in EnviroSET or desired solvent blend, remove excess solvent from the brush and clean the entire cove base area to smoothen any rough spots or loose quartz. Allow the cove system to cure 8–10 hours before the next step.



**Applying a Seal Coat:**

It is recommended to finish the cove base system with a seal coat of MonoSET100 TC/TCV before the application of the flooring system. Using a masonry stone, stone the cove base area to smooth any rough spots or knock out any loose quartz. Clean the stoned area with solvent by dipping a rag in ENVIROSOL or desired solvent blend and wiping the stoned area clean. Apply a seal coat coat of MonoSET100 TC/TCV (following the same mix and procedure for MonoSET100 Cove above). Using a disposable brush spread MonoSET100 TC onto the cove base evenly. Follow with a 3/8” non-shed nap roller to remove excess material and smooth out the seal coat. Repeat process for second topcoat if the cove matrix is too porous. Allow the seal coat to cure 8–10 hours before applying a SET finish coat.

**Applying a Finish Topcoat:**

A SET finish top coat system of the cove base can be applied at the same time of the final finish top coat of the flooring system while cutting in the topcoat along the wall of the finish flooring system.

Typical Spread Rate: (thickness dependent)

	<b>Spread Rate</b>
<b>4” 1” Radius Cove Base</b>	<b>40 Linear Feet</b>
<b>6” 1” Radius Cove Base</b>	<b>30 Linear Feet</b>

**Chemical Resistance:**

Refer to chemical chart

**Color:**

Refer to color chart

**Packaging:**

Sold in kits as follow:

**MonoSET100 TCV**

- Part A: 3-lb colored resin
- Part B: 3-lb hardener
- Part C: 3-lb aggregate

**MonoSET100 Cove**

- Part A: 3-lb colored Resin
- Part B: 3-lb hardener
- Part C: 34-lb aggregate

**Storage:**

All components in the kit must be stored dry between 50°F–90°F. Do not allow resin and hardener to freeze.

Resin and hardener each have a shelf life of 1 year.

Aggregate has a shelf life of 6 months.

All components must be in their original sealed containers.



### **Limitations:**

Do not use broken, damaged or wet bag of aggregate.

Do not split substrate or add to the kits unless you are using inert materials, such as pea gravel or sands for extending purposes.

Bleaching and staining is possible in a pigmented system due to certain chemicals. This will not affect the performance.

This product is not light stable. Sunlight and metal halide lighting will cause yellowing. This will not affect the performance.

A batch-to-batch color variation may occur. Box the same lot numbers together for color consistency.

Do not apply to unreinforced sand/cement screeds, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, aluminum, polyesters or elastomeric membranes.

Old, damaged, clumps bag of aggregate may affect flow, leveling and healing properties.

**CAUTION:** Do not remove any materials from premeasured unit.

### **Safety Precautions:**

Have proper personal protective equipment (PPE).

Read safety data sheet completely and thoroughly.

Follow and observe all manufacturers' local, state, and federal regulation and safety hazards warnings, procedures, and guidelines.

*Use only as directed. KEEP OUT OF REACH OF CHILDREN.*

### **Disposal:**

Dispose of all excess materials, packaging, and other waste in accordance with federal, state, and local regulations.

Surface Engineered Technologies (SET) warrants its products to be free of defects in materials and workmanship. Since SET has no control over surface preparation or application methods, no guarantees concerning results is offered, expressed, or implied. If this product is found to be defective, liability shall be limited to the refund of purchase price or replacement of product.