

## Micro-Topping

Revive old concrete or create striking new surfaces with INNOTECH MICRO-TOPPING, an architectural concrete overlay. INNOTECH MICRO-TOPPING transforms structurally sound surfaces into colorful areas with architectural impact, while delivering exceptional abrasion resistance. Available in 42 standard colors this product produces areas of solid color, subtle variegation, marbled hues and various textures.

### Product Features and Benefits

- INNOTECH MICRO-TOPPING is an extremely versatile product which can be feathered to a zero edge, used in interior or exterior applications and applied to vertical or horizontal surfaces. It is an ideal product for creating long lasting, colorfast and vibrant surfaces.
- This product features exceptional bond strength, this product adheres to most stable substrates.
- INNOTECH MICRO-TOPPING features excellent abrasion resistance and will achieve a compressive strength of 6,000 PSI.
- INNOTECH MICRO-TOPPING can significantly reduce construction costs when elaborate graphics or extensive color changes are needed.
- INNOTECH MICRO-TOPPING provides architects, designers and owners an expanded range of cementitious color selection that, in the past, was only available in less wear-resistant paint-type materials or multiple costly and time intensive colored concrete pours.

### Prior to Application

- Sweep or vacuum loose dirt from the surface. Use a floor scraper or grinder to remove bumps and surface build-up. For best results, surface should be as flat and level as possible.
- INNOTECH utilizes the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying INNOTECH MICRO-TOPPING. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart.
- Standing oil and grease should be wiped clean, scrubbed with an appropriate industrial detergent such as INNOTECH CONCRETE DEGREASER-NEUTRALIZER<sup>†</sup>, rinsed with clean water and completely dried before application of INNOTECH MICRO-TOPPING.
- Holes and large chips should be filled and troweled flat using an appropriate structural-grade repair product prior to the base coat application.
- Control joints and moving/working cracks in the existing concrete are expected to transfer through the surface of the topping and create potential cracking problems. In the case of existing joints or saw cuts, new joints or saw cuts must be placed directly over the existing joints or saw cuts. Any new joint or saw cut must penetrate entirely through the new layers of INNOTECH MICRO-TOPPING.

### Product Application

- INNOTECH MICRO-TOPPING should be applied at a minimum of three coats: two base coats, followed by one finish coat.
- Mix using a mechanical mixer with a multibladed mixing paddle. Do not mix by hand.
- It is critical to maintain material consistency for the entire area being treated, change in mix ratio could result in a color variation:
  1. Horizontal Surface: Approximately 2-gallons of liquid to one 56-lb. bag of powder (base coat) and 2-gallons to one 40-lb. bag (finish coat).
  2. Vertical Surface: Approximately 1-gallon of liquid to one 56-lb. bag of powder (base coat) and 1-gallon to one 40-lb. bag (finish coat).
- Mixing Preparation: Mixing should be done in a cool area in 5-gallon buckets (or 15-gallon drums for larger jobs). Because material dries quickly when exposed to air, buckets and small mixing drums work best. Do not allow INNOTECH MICRO-TOPPING to air dry on tools or equipment.
- Mixing Instructions: The following instructions are for both INNOTECH MICRO-TOPPING Base Coat and Finish Coat.
  - Mix only enough material for the immediate area to be covered. Use INNOTECH MICRO-TOPPING as soon as possible after mixing.
  - If there is any unused material, it should be kept in a cool and covered place – do not leave exposed to sunlight.
  - In a clean container, combine the INNOTECH MICRO-TOPPING Liquid Tint Pack with the Liquid Polymer. Blend thoroughly.
  - While mixer is running, slowly add the INNOTECH MICRO-TOPPING powder.
  - Mix until lump free.
  - Add small quantities of liquid or powder to achieve the desired consistency depending on the type of area to be covered and application method.
  - For horizontal surfaces, a more fluid mix is desired, while for vertical surfaces, a drier stickier mix is desired.

#### Primer and Base Coat Application: 2 Base Coats Recommended

- Prime the surface. Spray a thin, even coat of INNOTECH STAMPABLE OVERLAY PRIMER Liquid to prime the surface. Agitate the primer into the substrate with a stiff bristle brush or low RPM rotary scrubber, making sure to eliminate any puddles.
- Apply the first base coat of INNOTECH MICRO-TOPPING while the primer is still wet or tacky. If the primer dries, reapply and agitate to achieve a wet or tacky surface. The primer is needed for the initial base coat application only. The initial application of INNOTECH MICRO-TOPPING Base Coat should be applied in a wet fluid state to ensure proper adhesion and surface penetration.
- Pour only enough material that can be laid down in a 15-minute time period.
- Maintain a wet edge.
- When working large areas, the base coat can be easily applied with a squeegee, trowel or roller. When working smaller areas or corners, use a trowel or small squeegee to apply the base coat.
- Spread thin, even coats of base coat across the surface.
- Once the first base coat has dried, proceed with the second base coat application.
- On new concrete surfaces, typically two base coat applications are enough. On pitted, damaged or rough surfaces, additional coats may be required (the use of repair mortar is recommended to fill larger voids).

- Once each base coat application can be walked on without marring the surface, care should be taken to knock down any irregularities, lumps or squeegee marks with a trowel, scraper or drywall knife. If base coat material dries to a final hardness before the surface can be manually smoothed, a (80- to 120-grit) screen may be needed to smooth the surface.
- It is critical to achieve a uniform, smooth base coat prior to application of the finish coat. Any imperfections in the base coat will telegraph through the finish coat.

#### Finish Coat Application: Optional Number of Coats

- Finish Coats are required to achieve a very smooth surface, for a rougher/more sandy finish the Finish Coat can be skipped.
- Finish Coats can be applied using any number of methods including, but not limited to, squeegees, trowels, rollers, brushes, brooms, sponges and hopper guns, each achieve a special texture and finish.
- Pour only enough material that can be laid down in a 15-minute time frame and maintain a wet edge during application.
- Squeegee or trowel application is the best method for a smooth finish.
- As the finish material begins to set, a "second pass" with a trowel may be necessary to minimize application marks and create a smooth surface.
- Once cured, a 150-grit sanding screen can be used on a rotary buffer to create an extra smooth surface.

## Coverage and Packaging Information

Coverage rates given below may vary slightly depending on surface profile and application method. Coverage may be significantly different on damaged, spalled or textured surfaces.

- INNOTECH MICRO-TOPPING Base Coat is produced in 56-lb bags: Coverage rate is approximately 450 square feet. (For each bag used, 2-gallons of INNOTECH MICRO-TOPPING Liquid will be required.)
- INNOTECH MICRO-TOPPING Finish Coat is produced in 40-lb bags: Coverage rate is approximately 600-1000 square feet. (For each bag used, 2-gallons of INNOTECH MICRO-TOPPING Liquid will be required.)
- INNOTECH MICRO-TOPPING Liquid is available in 2- and 5-gallon pails.

## Maintenance

INNOTECH highly recommends you develop and follow a schedule of routine maintenance for all colored concrete, so it maintains a quality appearance. Colored concrete installations should be routinely inspected, cleaned and resealed as required by the local conditions. Cleaning and resealing schedules will depend on a number of factors including, but not limited to, volume and intensity of traffic, maintenance procedures and weather.

## Production Limitations

- INNOTECH MICRO-TOPPING is recommended for interior use only. For exterior use, contact Innotech Technical Service prior to use.
- Allow INNOTECH MICRO-TOPPING to fully cure a minimum of 24 hours before using dyes, stains or applying sealer.
- Important: Use only water-based sealers with INNOTECH MICRO-TOPPING. Solvent based sealers will negatively affect the structural and compression strength of the product.
- INNOTECH MICRO-TOPPING will not properly bond to wet or damp concrete.
- INNOTECH MICRO-TOPPING will not adhere properly to salt-damaged concrete (i.e. salt-finished surfaces or de-icing salt-infested surfaces).
- INNOTECH MICRO-TOPPING will not adhere to standing oil or grease. Certain aggressive stains, such as hydraulic fluids, proteins and animal waste by-products, may appear through the topping as "shadowing" on the finished surface. Any of these materials found on the substrate should be cleaned with an appropriate cleaner and then sealed with a water-based epoxy.
- If heavy adhesive tapes (such as duct tape) are left on sealed INNOTECH MICRO-TOPPING over an extended period of time, a chemical "weld" will be created between the tape and the INNOTECH MICRO-TOPPING. If this happens, the product may be subject to delamination.

## Product Shelf Life/Storage

Store INNOTECH MICRO-TOPPING indoors, away from heat or sunlight at a temperature range of 50 °F - 80 °F. Do not allow product to freeze. Shelf life: 12 months.

## Product Handling

Prior to using INNOTECH MICRO-TOPPING please reference the corresponding Safety Data Sheet to ensure safe handling. Always wear gloves and eye protection when handling product.

## Product Warranty

INNOTECH MICRO-TOPPING is a proprietary product, warranted to be of uniform quality within our stringent manufacturing tolerances. As no control is exercised over the product use, no warranty is made as to the effects of such use (neither expressed or implied). Obligation of the seller and manufacturer under this warranty shall be limited to a refund of the purchase price of that portion of the material proven to be defective. The user assumes all other risk and liability resulting from uses of this product. Contact INNOTECH with any questions regarding this policy.

***†PLEASE REFER TO CORRESPONDING TECHNICAL BULLETIN FOR PRODUCT AND APPLICATION DATA.***

INNOTECH MICRO-TOPPING and other INNOTECH products are for professional use only.

INNOTECH products can be purchased at:



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