

Liquid Color

INNOTECH[®] LIQUID COLOR helps to bring beauty, sustainability and durability to any project. With more than 40 colors, INNOTECH LIQUID COLOR expands the color palette, allowing one to achieve colors and designs not previously achieved with regular gray concrete. INNOTECH LIQUID COLOR can be utilized in the coloring of concrete floors, concrete block, concrete pavers, as well as in vertical applications such as precast concrete and poured in place concrete.

Product Features and Benefits

INNOTECH LIQUID COLOR..

- Is available in Light Red, Dark Red, Yellow, Black, and White to achieve innumerable color options.
- Can be special ordered in pre-colored custom colors.
- Are available in 55-gallon drums and large disposable totes.

Prior to Application

- **Always create an actual finished mock-up sample for client approval prior to installation of each project.**
- INNOTECH LIQUID COLOR is designed for ready mixed, precast, poured in place, curbing machines and mortar coloring use.
- Consistency of cement color, aggregates, slump, finishing techniques and curing methods are critical in obtaining color uniformity.
- For consistent color, the use of pozzolan or fly ash is discouraged.
- Creating a onsite sample for customer acceptance using the specified mix design is recommended. Innotech recommends a three yard minimum mock up to assure color consistency. View sample after full cure.

Product Application

Slump:

Slump should not exceed four inches. Slump should be consistent from pour to pour. Mix designs requiring higher slumps should be achieved by using water-reducing admixtures or plasticizing admixtures, not by the addition of water.

For Ready Mixed Application:

- INNOTECH LIQUID COLOR can be added either automatically by the use of a metering or volume measuring system, or manually by volume or weight. INNOTECH LIQUID COLOR should be agitated before use to obtain the proper viscosity. If the container is opened and only partially used, it should be resealed tightly to prevent moisture loss.
- Mixer should be loaded to a minimum of 40% capacity to ensure good color dispersion.
- Make sure to use the same mix design and maintain, a consistent water to cement ratio throughout the project.
Before adding color to the ready mix truck, it is recommended to reverse the drum thus bringing the concrete to the back of the truck. Pour color onto the concrete thereby reducing direct contact with the drum.
- Mix at high speed for a minimum of five minutes before discharging concrete.
- Color variation may occur if batch proportion and slump are not maintained from load to load.
- After the pour has begun, adding water to the load is **strongly discouraged** as it can/will cause inconsistency in the final color.

For Vertical Applications:

All forms should be cleaned thoroughly prior to use or reuse, and applied release agents should be non-staining. For best results, forms should be free of cement latents from any prior pour. For color uniformity, methods and material used in preparing the forms should be consistent through the completion of the project. To achieve more uniform color, forms should be stripped when the concrete is the same age. Lightly sandblasting vertical surfaces is recommended to remove minor form marks and any cement latents resulting from water, cement and coloring agents bleeding toward the forms during the concrete placement.

Other product application notes:

- Concrete should be cured in accordance with ACI standards. Innotech offers a variety of curing agents that adhere to ASTM C309 standards for curing architectural concrete. The use of INNOTECH CURE & SEAL SB⁺ meets ASTM C1315 and is recommended for curing new colored architectural concrete flatwork.
- Proper curing, along with maintaining a low slump and protecting the surface against water penetration, reduces the possibility of efflorescence.

Additional Considerations For Installers Using INNOTECH Liquid Color

- Good basic concrete placement procedures are vital to the success of any job where integrally colored concrete is being used.
- **Do not use Calcium Chloride.** Calcium Chloride can cause discoloration in the form of light and dark areas in the finished product.
- Place concrete on damp yet, well drained substrate that has been properly compacted.
- Be careful not to overwork the material. Tamp and/or vibrate the concrete, screed, then float to finished grade.
- Provide adequate and uniform texture for appearance and slip resistance.

To Cure and Seal Colored Concrete

- Proper curing procedures: Lack of proper curing is the number one reason for inconsistent concrete color.
- For curing concrete that has been colored using INNOTECH LIQUID COLOR, choose a product that is appropriate for the project requirements.
- INNOTECH COLORWAX⁺ meets ASTM C309. INNOTECH CURE & SEAL SB⁺ (Matte or Gloss) Meets ASTM C1315.
- For sealing concrete, choose from a variety of Innotech water-based and solvent based sealers appropriate to the specific job requirements.
- Innotech has sealers that meet the various VOC regulations across the country, including the SCAQMD requirement of 100< VOC.

Maintenance

All installations should be maintained on a routine basis with the use of INNTECH maintenance products to ensure the preservation of a high-quality long-lasting surface.

- Maintenance schedules will vary depending on a number of factors, including volume and intensity of traffic, geographic location, ultraviolet light exposure and weather conditions.
- A routine maintenance schedule for all colored concrete is recommended so that surfaces maintain a desired appearance. Colored concrete surfaces should be inspected every 18-36 months, or as required by traffic and volume intensity.
- Innotech offers a complete line of cleaning and sealing products to ensure that the surface retains its desired appearance. Please reference the "INNTECH SEALER AND MAINTENANCE PRODUCT GUIDE" or contact a Customer Service Associate to determine the correct sealer for a specific application.

Product Limitations

- A pigment loading of 10% based on the weight of the total cementitious content used is the saturation point. Any color pigment loading in excess of 10% will not provide any additional color or benefits, rather it will reduce the overall strength of the finished product. Further, any pigment loading less than 1% can cause irregular coloring and a "washed out" appearance in the concrete.
- Inconsistencies in jobsite conditions, concrete mix designs, slump, curing methods, finishing practices, and sealers may produce variations in the color of the finished product.

Available Packaging

INNTECH LIQUID COLOR is available in 55 gallon drums and larger disposable totes.

Product Shelf Life/Storage

INNTECH LIQUID COLOR should be stored indoors, away from heat or direct sunlight. Do not store below 40 °F. If the Liquid freezes, discard. Shelf life: 12 months.

Product Handling


Prior to using INNTECH LIQUID COLOR please reference the corresponding Material Safety Data Sheet to ensure safe handling.

Warranty

INNTECH LIQUID COLOR 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 nor 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.

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

INNTECH LIQUID COLOR and other INNTECH products are for professional use only.

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INNTECH products can be purchased at:



INNTECH Decorative Concrete Products
Customer Service 877-829-7880 or 330-425-2506
Fax 330-425-2466
CustomerService@InnotechDCP.com
www.InnotechDCP.com