

# inPHusion ES

## Color Additive for Asphalt Emulsion Sealer

Technical Data Sheet



### Description

inPHusion ES is an innovative and easy to use concentrated liquid colorant designed to be mixed with most standard asphalt emulsion sealers. inPHusion ES quickly and easily mixes into black asphalt emulsions sealers, permanently changing the color to a wide range of earth-tone shades, while at the same time prolonging the life of asphalt sealers by providing additional protection against the harmful effects of sunlight and oxidation. inPHusion ES is water-based, contains no toxic or carcinogenic agents or organic solvents or VOC's.

**NOTE:** inPHusion ES is not recommended for use in coal tar, solvent or oil-based asphalt sealers. Always perform a test to assure proper performance and color prior to project application.

### Product Benefits

- Mixes easily and quickly into any residential or commercial grade asphalt emulsion sealer.
- Beautifies the pavement to a wide range of natural earth-tone colors.
- Contains no toxic chemicals, organic solvents or carcinogenic agents.
- Water-based and environmentally friendly.
- Slows damage to asphalt against the harmful effects of sunlight and oxidation.
- Increases the solar relative index (SRI) and reduces heat island compared to black asphalt.

### Pre-Application

- Calculate the square footage of the area to be sealed and determine the number of gallons of asphalt emulsion sealer required. Consult the asphalt emulsion sealer manufacturer for coverage rates.
- Always follow proper safety guidelines. It is recommended to wear eye protection and minimize skin contact with the inPHusion ES color additive and asphalt sealer. Consult the Safety Data Sheets for the color additive and asphalt sealer for complete safety and handling information.
- Prior to application, CSI highly recommends samples and/or mock up areas be prepared to assure product compatibility and final color. The samples and/or mock ups should represent the actual project conditions as best as possible.
- For old asphalt pavement, repair and patch all major pavement defects. All cracks, other than hairline cracks (larger than 1/8 of an inch wide) should be filled with a suitable hot pour crack filler. Scrape all oil spots to remove excess oil and dirt. Just before applying the mixed product, clean the asphalt pavement surface of all loose dust, dirt, leaves and debris.
- Mix inPHusion ES color additive well, before use, as the product may settle over time. Weigh out specified amount of color into clean containers.

### Mixing

- inPHusion ES comes ready to use in 10 lb. pails. Mix well before use.
- The final shade of color can vary according to how much inPHusion ES Color Additive is mixed with each gallon of asphalt emulsion sealer.
- Consult the Asphalt Color Selection Guide and color dosing chart below for proper dosing.

<u>Color Shade</u>	<u>Pounds of inPHusion ES</u>	<u>Gallons of asphalt emulsion sealer colored with one 10 lb. pail</u>
Light	½	20
Medium	1	10
Dark	1 ½	6.6
Extra Dark	2	5

- In a clean container combine the required amount of color additive and black asphalt emulsion sealer. Mix for 1 to 2 minutes with a mechanical mixer (mixing blade on a drill or similar) until the Color Additive is fully dispersed and the sealer color is uniform.
- You may need to add an additional small amount of water to thin the sealer for ease of application. Do not exceed 10 ounces of water per gallon of original seal coat. Do not overwater, as this can reduce the durability of the seal coat.
- If multiple batches are required, combine all the colored sealer into one container and mix to assure color consistency before application.

### Application

- Colored asphalt sealer should be applied in the same manner as conventional asphalt emulsion seal coatings. Typical application methods include spray, broom, squeegee, or seal coating machine.
- The final mixed product that has not dried may be removed by rinsing tools, equipment, and skin with warm water and soap. Dried product may be cleaned from tools and equipment by soaking or washing with odorless petroleum naphtha spirits, kerosene, or diesel oils. Steam cleaning equipment for spray bars and seal coat distributors employing degreasing chemicals may also be used. Remove dried product from skin with industrial hand cleaners, or skin creams. Follow clean up procedures provided by the asphalt emulsion seal coat manufacturer.
- Consult the asphalt sealer manufacturer's application guidelines for complete installation recommendations.

## Limitations

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Because of the variety of asphalt emulsion seal coating products presently available, colors may vary. CSI highly recommends samples and or mock up areas be prepared to assure product compatibility and final color. The samples and or mock ups should represent the actual project conditions as best as possible.

## Surface Protection and Maintenance

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- Maintenance will vary depending on a number of factors, including volume and intensity of traffic, geographic location, ultraviolet light exposure and weather conditions. inPHusion ES will not negatively impact the performance or coverage rates of the asphalt sealer. Consult the asphalt sealer manufacturer for performance information and suggested maintenance.
- Regular preventive maintenance can extend the life of any asphalt pavement indefinitely.

## Shelf Life and Storage

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inPHusion ES should be kept in air tight containers, stored in a cool dry location, and not allowed to freeze. Over time the color additive may separate and settle. Mechanical mixing may be needed to reincorporate the color back into suspension. Shelf life is 1 year from date of manufacture.

Once the color additive is mixed with asphalt sealer the color may settle and separate over time. Mix well prior to using. If stored in horizontal storage tanks, centrally suspended horizontal agitators should be used. Positive displacement gear pumps capable of handling abrasive materials are recommended. Progressive cavity, diaphragm, and piston pumps may also be used. Since any asphalt emulsion may be damaged by freezing, it should be protected at all times when the temperature drops below 40 °F (4.4 °C). If it does freeze, the product is no longer viable.

## Package Sizes

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inPHusion ES is available in 1 gallon, 5 gallon, 55 gallon and 275 gallon containers.

## Technical Data

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Please refer to the corresponding SDS for hazard-related information.

## Product Handling

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For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product.

## Warranty

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inPHusion ES, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact ChemSystems, Inc.



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