

# inPHusion HX

## Color Additive for Hot Mix Asphalt



### Technical Data Sheet

#### Description

inPHusion HX is a concentrated powder additive designed to integrally color conventional hot mix asphalt (HX), warm mix asphalt or slurry coats. inPHusion HX is added to the asphalt at the batch plant producing asphalt that is delivered to the project site fully colored. Conventional asphalt paving procedures are utilized in handling and placing integrally colored asphalt.

#### Product Benefits

- Can be used in traditional hot mix asphalt, warm asphalt or slurry mixes.
- Available in a variety of standard colors. See color selection guide.
- Beautifies the pavement to various earth tone colors.
- Free of toxic, organic solvents and carcinogenic agents.
- There are no hazardous gases or fumes given off as the final product dries.
- Reduces the solar reflective index (SRI) and increases light reflection.
- Differentiates and highlights pavements for safety and awareness.

#### Mixing Instructions

- inPHusion HX is dosed per ton of asphalt. The amount of color additive dosed determines the depth of color. As more color is added the color becomes darker and more vibrant.
- Asphalt Color offers 5 standard colors loaded at 3 different levels - 50, 80, and 100 lb. per ton. Refer to the Asphalt Color Selection Guide for color choices.
- inPHusion HX is added to the asphalt at the batch plant during the manufacturing process. inPHusion HX produces best results when used in a pug mill or batch plant. In a pug mill or batch plant, the color should be added after the heated aggregate is already in the batch mixer, but prior to the addition of oil. Once the color is added and mixed with the hot aggregate, the oil is added. Mix thoroughly until the color of the asphalt is uniform. The mixing time may be twice the time of the plant's standard uncolored hot mix. For continuous drum plants, the color can be added with the aggregate or mixed with the hot oil in the tank prior to injection into the drum. Due to the speed and efficiency of some drum plants, achieving consistent color may require additional mixing time.
- inPHusion HX is compatible with most standard hot mix asphalt mix designs. Colors represented are based on 5% oil content. A primer batch of 1 to 3 tons of colored asphalt can be run through the plant and associated equipment to "coat" working surfaces and reduce cross contamination. Typically no additional clean out is required after running colored asphalt.
- Due to the variety of asphalt mix designs we recommend a minimum 1 ton test batch to assure proper mixing and color consistency prior to beginning any project.

#### Application

1. It is recommended that colored hot mix asphalt be installed at a minimum of one inch thick.
2. When applying colored asphalt over an existing asphalt surface, prepare the surface the same as if an uncolored lift was being applied. Old asphalt should be cleaned and a tack coat should be applied prior to installation.
3. When applying new full depth colored asphalt, only the top 1 to 1.5

inches, or top lift, of the asphalt installation needs to be colored for cost control.

4. Colored hot mix asphalt can and should be handled and installed per standard industry practices. When working with colored asphalt care should be taken to use clean tools, equipment, and shoes, as cross contamination can occur, especially with lighter colors.

#### Surface Protection and Maintenance

- Maintenance will vary depending on a number of factors, including volume and intensity of traffic, geographic location, ultraviolet light exposure and weather conditions. In general integrally colored asphalt will retain its color for the life of the asphalt.
- If needed, colored asphalt can be resealed using a colored asphalt sealer tinted with inPHusion ES.
- Over time and with traffic the surface of the colored asphalt may wear and expose aggregate. The color of the exposed aggregate may impact the overall color of the asphalt. In high traffic areas, or where significant wear may take place, it is recommended to consider using an aggregate that is similar in color to the colored asphalt.

#### Coverage Rate and Drying Times

- Consult with the asphalt installer or manufacturing plant for exact coverage rates per ton of hot mix asphalt. Standard coverage is 100 square feet per ton at 1.5 inches thick.
- Depending on the desired depth of color, inPHusion HX is dosed at 50, 80 or 100 lb. per ton of asphalt.
- Drying times for colored asphalt will be similar to those for standard hot mix asphalt. As with standard asphalt hot mix applications the pavement will fade from a shiny dark surface to a lighter duller surface during the first weeks after application. The color will not fade and will last the life of the asphalt.

#### Shelf Life and Storage

inPHusion HX should be stored in a dry place.

#### Package Sizes

inPHusion HX is available in paper or clear plastic melting bags in 40-, and 50 lb. sizes. 2000 lb. bulk pound bags are also available.

#### Technical Data

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

#### Product Handling

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

#### Warranty

inPHusion HX, 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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