



# FAQ

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## **WHAT IS THE COLORSCAPE® EVERBOLD® SYSTEM?**

ColorScape® EverBold® is a proprietary system that incorporates integral admixtures and in-line treatments. The ColorScape® EverBold® System works to enhance the original color depth of concrete pavers and extend color fastness or color durability over time. Paver physical properties and durability are also improved by increasing paver density and decreasing absorption.

## **HOW IS IT DIFFERENT FROM OTHER ADMIXTURES AND SURFACE TREATMENTS?**

The ColorScape® EverBold® System has been carefully optimized to synergize the performance of the integral and in-line treatments. Unlike color enhancement sealers or impregnations that are post applied, ColorScape® EverBold® is applied during the manufacturing process, so pavers start life protected and maintain that protection for years.

## **WHAT IMPACTS CONCRETE PAVER COLOR?**

Paver colors are determined by the raw materials used in manufacturing e.g. sand, stone, cement and supplementary cementitious materials such as fly ash and slag cement. Pigments are added to achieve the desired color hues and effects.

## **WHY DO SOME PAVERS LOSE COLOR VIBRANCY OVER TIME?**

Pigments are an important contributor to paver colors, however it is not pigment fading that causes most color failures. Pigment particles are held in the cementitious and fine aggregate paste blend that binds the coarser aggregates together. Over time through me-

chanical wear such as foot or vehicular traffic, chemical wear from acid rain, acid based cleaners or freeze thaw exposure, the fine particles on the surface of the paver may be worn away leaving a dusty residue and larger uncolored aggregates exposed, causing the paver to look faded.

Good quality pavers with high strength and low absorption will retain surface and color integrity for longer. Integral admixtures and color enrichment systems can help to raise paver quality and preserve color depth and hues.

## **DOES COLORSCAPE® EVERBOLD® CHANGE THE PHYSICAL PROPERTIES OF CONCRETE PAVERS?**

ColorScape® EverBold® pavers meet or exceed freeze-thaw durability and absorption conformance with ASTM C936 and CSA 231 when properly manufactured. Paver texture is not affected and pavers meet slip resistance coefficient of friction requirements per the recently adopted DCOF Acu-Test.

## **WILL COLORSCAPE® EVERBOLD® PREVENT ANY EFFLORESCENCE FROM OCCURRING?**

Efflorescence is a naturally occurring phenomenon that may affect any cement based material. Efflorescence is a deposit of soluble salts, usually white, that may form on the surface of stone, brick, concrete or mortar. This occurs most often when moisture present in the materials reacts with calcium hydroxide in cement to form calcium carbonate. The calcium hydroxide/water solution is drawn through the concrete

matrix by wicking action and calcium carbonate is left behind as water evaporates from the surface, leaving an unsightly residue.

Primary efflorescence in pavers usually occurs soon after manufacture when pavers are exposed to cold and wet. The worst efflorescence usually occurs in spring and autumn due to wet and slow evaporation conditions.

Secondary efflorescence occurs after installation and can be induced by poor moisture control design or incorrect installation that traps moisture. Pavers are often exposed to rain or frequent wet/dry cycles from sprinkler systems. If correct drainage is not applied, moisture will collect in low areas. Many landscape fertilizers contain chemicals that contribute to efflorescence. Certain bedding and joint sands contain high soluble alkali contents that can also cause issues.

Efflorescence does not harm the pavers or impact physical properties. Left untreated, the white residue will usually slowly disappear by itself over time.

To minimize the potential for efflorescence, designers may specify efflorescence controlling admixtures that limit the movement of water through the concrete matrix.

By improving the quality of the surface and the concrete matrix during the production process ColorScape® EverBold® reduces the occurrence of both primary and secondary efflorescence.

## **ARE CONCRETE PAVERS TREATED WITH COLORSCAPE® EVERBOLD® BREATHABLE?**

ColorScape® EverBold® pavers are not impervious to moisture and it does not form a film on the paver surface. ColorScape® EverBold® is not a vapor barrier, and the paver remains breathable.

## **CAN POST APPLIED SEALERS BE APPLIED TO COLORSCAPE® EVERBOLD® TREATED PAVERS?**

The ColorScape® EverBold® System is compatible with many post applied sealers, including polyurethane, acrylic and water based products. It is not recommended for use with silane/siloxane based sealers. Test in an inconspicuous area prior to application. Follow manufacturer's instructions when using cleaning and sealing products.

## **HOW LONG DOES COLORSCAPE® EVERBOLD® TREATMENT LAST, WILL I NEED TO SEAL THE PAVERS AFTER INSTALLATION?**

Pavers treated with the ColorScape® EverBold® System are protected during the manufacturing process, and have a natural matte appearance with deep color that lasts for years. If a wet-look is desired, pavers may be sealed after installation with appropriate sealers. Water and stain repellent sealers may also be applied to increase protection in a "belt and suspenders" approach.

We hope that information presented here is helpful. It is based on data considered to be true and accurate, and reflects our best understanding and knowledge, presented for the user's consideration. We do not warrant results of action based on any of the information contained. No statement, recommendation or suggestion is intended to infringe on any patent or copyright.

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P.O. Box 920430 Norcross, GA 30071