



ColorScape® DuraBold® FAQ

WHAT IS THE COLORSCAPE DURABOLD SYSTEM?

ColorScape DuraBold is a proprietary system for wet cast concrete slabs that incorporates integral admixtures and inline surface treatments. DuraBold works to enhance the original color depth of concrete slabs and extend color fastness or color durability over time.

Key benefits include:

- Increased surface hardness and abrasion resistance
- Deeper, richer colors with slight gloss appearance
- Long lasting color
- Reduced “chalkiness” that can appear on concrete surfaces over time
- Reduced potential for efflorescence

HOW DOES IT DIFFER FROM OTHER SURFACE TREATMENTS?

Unlike post-applied topical sealers, DuraBold application is integrated into the concrete production process. DuraBold is IR cured into the slab surface during production, becoming part of the finished slab. Slabs are protected before they reach the jobsite, and remain protected for years.

DOES COLORSCAPE DURABOLD PROTECT AGAINST FADING AND ACID RAIN?

Pigments are an important contributor to slab 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 traffic abrasion or chemical wear from acid rain, harsh cleaners or freeze thaw exposure, fine particles on the surface of the slab may wear away. A dusty residue and larger uncolored aggregates may then be exposed, causing the slab to look faded.

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

WILL COLORSCAPE DURABOLD PREVENT ANY EFFLORESCENCE FROM OCCURRING?

DuraBold improves the quality of slab surfaces and slab internal concrete matrix. These improvements significantly reduce the occurrence of efflorescence.

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



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most often when moisture present in the materials reacts with calcium hydroxide in cement. The calcium hydroxide/water solution is drawn through the concrete matrix by wicking action. Calcium carbonate is left behind as unsightly residue as water evaporates from the surface.

Primary efflorescence in slabs usually occurs soon after manufacture when slabs are exposed to cold and wet. The worst efflorescence usually occurs in spring and fall.

Secondary efflorescence occurs after installation and can be induced by poor moisture control design or incorrect installation that traps moisture. Slabs 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. Efflorescence does not harm the slabs or impact physical properties. Left untreated, the white residue will usually slowly disappear by itself over time.

DOES COLORSCAPE DURABOLD CHANGE PHYSICAL PROPERTIES?

DuraBold slabs meet or exceed freeze-thaw durability and absorption conformance with ASTM C936 and CSA 231 when properly manufactured. Slab texture is not affected and slabs meet slip resistance coefficient of friction requirements per the DCOF Acu-Test.

CAN POST APPLIED SEALERS BE APPLIED TO TREATED SLABS?

The DuraBold system is compatible with many post applied sealers, including polyurethane, acrylic and water based

products.

DuraBold is not recommended for use with silane/siloxane penetrating sealers.

Typically it is not necessary to apply an additional sealer because of the color and durability benefits provided by this technology. If a wet-look is desired, slabs may be sealed after installation with appropriate sealers. Water and stain repellent sealers may be applied to increase protection in a "belt and suspenders" approach.

Test in an inconspicuous area prior to application. Follow the manufacturer's instructions when using cleaning and sealing products.

CAN INLINE TREATMENTS BE APPLIED TO SLABS AFTER THEY HAVE BEEN INSTALLED?

DuraBold is part of the manufacturing process and can only be applied at the manufacturing facility. It is not possible to apply on a jobsite.

HOW SHOULD I CLEAN TREATED SLABS?

DuraBold pavers are naturally resistant to dirt and many household and driveway stains. When cleaning, use a low pressure wash with a paving cleaner solution. Test in an inconspicuous area prior to application. Follow manufacturer's instructions cleaning and sealing slabs.

Contact

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