



Technical Release

Cemfort HD – Natural color variation

Color variation is a natural phenomenon for any Portland cement-based product and represents a normal step in the maturation process of concrete.

Concrete, made of natural ingredients such as sand, aggregates, water and Portland cement (clay and limestone), will interact with its environment to which it is exposed and will have a natural maturation. During this maturation and aging process of concrete, a natural color variation is normal. The degree of color variation will be low to moderate, depending on the color of concrete. Darker colors will have a more important color variation.

Color variation is superficial and caused by the natural porosity of concrete. The wet-dry cycles that the concrete will sustain, being exposed to the exterior elements in addition to the absorption of dirt in the ambient air, will affect the concrete maturation and its color.

Color variation can be attenuated by diminishing the porosity of concrete. The application of a water repellent sealer on the concrete's surface will diminish the porosity of concrete and thus, the causes related to its color variation. To limit the color variation through time, the reapplication of a sealer might be required to maintain the color 'stability' of concrete.

For additional information, do not hesitate to contact us.

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