

The purpose of this bulletin is to explain efflorescence, and to state Hanson's position on efflorescence with regard to Concrete Roof Tile products.

When applicable, a colorfast iron oxide pigment is mixed throughout the entire thickness of the tile to ensure consistent color distribution and uniform weathering. Color formulations are documented and retained for reference.

Unfortunately, due to the nature of concrete products, an unpredictable, temporary change in appearance, known as efflorescence, occasionally takes place. Efflorescence, appearing as a white haze, is caused by free salts in the raw material coming to the surface of the product via water through concrete pores. The length of time efflorescence remains, when it occurs, varies greatly and is primarily a function of environmental conditions, such as frequency of rain and drying, exposure and shade. It can occur within weeks of being manufactured and can last for eighteen months or more. Ultimately, the efflorescence will wash away and the original tile color will again become apparent. Products manufactured at the same time generally effloresce uniformly. However, if products are manufactured at different times efflorescence may occur in a completely different manner.

It should be remembered that the efflorescence phenomenon is temporary in nature. It is superficial and in no way affects the quality or functional properties of roof tile. Hanson Roof Tile is manufactured with all precautions within our control to maintain the highest standards of color uniformity and quality.

Please be advised, and so advise your customers, that if Hanson's Roof Tile is ordered and efflorescence does occur, that Hanson Roof Tile will not treat, seal, nor accept return of the product.