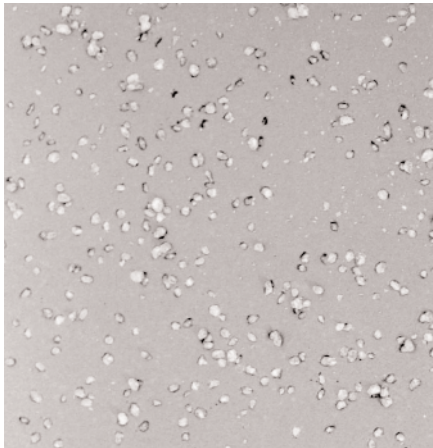


RT Surface Treatment

Bond Enhancing System for Insulcel Lightweight Insulating Concrete Systems



RT is a specially designed bond enhancing system for use with Siplast Insulcel Lightweight Insulating Concrete Systems. It provides enhanced attachment characteristics when semi-adhered Paradiene 20 TS is applied directly to the surface of an Insulcel Lightweight Insulating Concrete deck. The unique design of Paradiene 20 TS provides a mechanism for membrane venting while allowing direct adhesive attachment to the Insulcel surface.



RT Pellets broadcast into Insulcel Lightweight Insulating Concrete.

How Does RT Work?

RT Surface Treatment is a heat-activated, asphalt-based pellet that is broadcast into the surface of newly poured Insulcel Lightweight Insulating Concrete. The pellets create a mechanical lock into the surface of the concrete. When Paradiene 20 TS is torch-applied directly to the surface of the deck, the membrane and pellets are heat welded, resulting in a unique, highly engineered system with a first ply that is not only

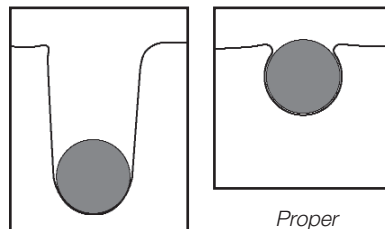
adhered to the deck surface, but also mechanically fastened to the concrete without penetrating the membrane.

RT Surface Treatment Application

1. RT Pellets are broadcast over the surface of a newly poured Insulcel deck using the RT Applicator. RT Pellets must be applied while the lightweight insulating concrete is still green, in conjunction with the concrete finishing process.
2. RT Pellets are applied at a rate of 4 pounds per square. Coverage should



be uniform and consistent across the surface of the Insulcel deck. Pellets must not be embedded below the surface of the deck. Optimum vertical drop distance for the pellets from the RT Applicator is no more than 12 inches from the surface of the fresh Insulcel.



Improper pellet depth.

Proper pellet depth.



Roof Membrane Application

1. The deck is allowed to cure for three days. A base ply fastener withdrawal test is performed using Zono-Tite Fasteners. A minimum 40-pound withdrawal must be achieved before roofing can begin. The deck should be inspected for conditions that will not allow for proper adhesion, such as scaling, spalling, frothing, an absence of pellets, or other irregularities. Repairs to such areas can be made using Zono-Patch or by applying Parabase base sheet using Zono-Tite fasteners.

2. Before beginning application of the roof membrane, RT Pellets must be thermally activated. This is achieved by torching the surface of the Insulcel deck using a torch wagon or hand torch. The RT Pellets will become glossy black, and begin to flow outward from the



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depression they created in the deck surface. When the outflow is approximately 1/4-inch in diameter, the pellet is adequately heated. RT Pellets cannot be properly thermally activated simultaneously with the torch application of the first ply of the roof system.

3. Paradiene 20 TS is applied using a torch wagon or a hand torch, followed by application of the Paradiene 30 finish ply.