

Easy application info for PIM+ and PIM+ Type S

Assuming at least 21 days has passed between the time the concrete is placed and when it is to be treated with PIM+ or the deeper penetrating PIM+ Type S, you want the PIM+ Type S to react IN the concrete (surface) being treated, not ON the concrete (surface), so you need to do two things; really one thing;

The first, because PIM+ reacts with alkali to form a gel, you want to wash off the alkali brought to the surface during the concrete hydrating. On vertical surfaces this is as easy as hosing down the surface, if you hose it down real good, from the TOP DOWN, so the alkali runs down and off the wall, you don't really need to pressure wash the surface. On horizontal surfaces, you want to ensure when you hose off this surface, that all the alkali now dissolved in the water, and any alkali which drained off the walls, is fully flushed off the horizontal surface. So, whether you hose off to drains, or squeegee the water off, whatever, just ensure the alkali-rich water is gone, or your PIM+ or PIM+ Type S will react on the surface instead of inside the concrete.

Now, the second thing you have to do is ensure the concrete to be treated has been soaked with water. This ensures the PIM+ Type S, which is heavier than water because of the liquid glass in it, and wetter than water because of the surfactants in it, will chase that moisture down into the concrete for the 20 seconds or so before it reacts with the alkali the soaking has re-emulsified inside the 60 mesh voids in the top 1/2" or so of the concrete. When you hose the alkali salts off the concrete surfaces to be treated this hosing off process also pushes water into the concrete re-emulsifying the alkali salts inside the concrete.

So you want to apply the PIM+ or PIM+ Type S on these hosed off surfaces when the surfaces have dried to the damp stage, or SSD. Surface Soaked but Damp.

On vertical surfaces, after you **hose them off from the top down**, spray **apply the PIM+ or the PIM+ Type S from the bottom up**. On horizontal surfaces hose them off from the high point down to the lower point or drain, and apply from the lower point or drain up to the high point. When the application is finished hose off the surface, vertical or horizontal from the top down, to wash away the excess material. You want to hose the excess off before it dries, as the liquid glass dries to a 200 mesh silicate flour. 200 mesh is as fine as talcum powder, and if it dries it's a bitch to broom off any surface! Hosing it off when it's still wet is much easier.

Application is with a Hudson Can type sprayer. You want to use this type of sprayer because it puts down a heavy enough amount of product in that first 15 to 20 seconds to actually penetrate the 1/2" or so you want.

Your applicator will notice the first 2 to 4 passes he makes with the sprayer head the PIM+ or PIM+ Type S will suck right into the concrete. Then as the voids fill with the gel created inside the voids, the excess water-soluble alkali will be extruded to the surface and the product being sprayed down will react with it. A white foam may occur, he may notice the gels are forming on

the surface and it's slippery, he will certainly notice when the PIM+ Type S stops being absorbed. At this point he should move on and do the next pass over lapping his swath each time by enough to ensure he doesn't miss any areas.

Coverage can range from from 100 sq. ft. per gallon vertical formed surfaces with no fines on the surface, same with exposed aggregate, to 250 sq. ft. per gallon on machine trowelled floors. The vertical surfaces formed surfaces could have bug holes and the cold joints (ensure they soaks these really well). On average coverage is about 150 sq. ft. per gallon.

Those Hudson cans used in the application hold about 3 gallons or so. An applicator can apply that in about 15 to 20 minutes or so, depending on whether he has to climb up on a ladder or not. In any case, what I'm getting at is a single applicator should be able to apply 2 to 3 pails or more every hour.

Allow any treated joints which are to have rubber gaskets fixed later, to cure for a minimum 72 hours before the rubber gaskets are fixed.

As we discussed before, please have the applicator/customer or both if different people to call me directly so I can go over the application with them. It's easy, but we want to ensure there are no problems.

PIM+ Type S is 100% safe for the applicator, the environment, animals etc. Hell, I've drank it to prove a point many times! That said, the applicator might want to wear goggles, although I never have, and he should most certainly wear rubber gloves, because if PIM+ Type S gets on his hands and then dries, the liquid glass dries to a 200 mesh (same as talcum powder) powdered glass. These little particles chew your hands up over time. Clean up is with soap and water.

If I missed anything please let me know.

Until then take care

Darell Chamberlain
1-866-751-7746