



Nail Coatings

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Halsteel provides Special Coatings and alloys of all formulations like yellow chromate galvanized, aluminum, color matched galvanized, and more. If you don't see it listed, as always, just ask or send us an email. Please read all warning labels regarding corrosion resistance of coatings on nails. Your application could warrant more protection from conditions such as salt in the air and water, woods with a high acid content, preservatives and fire retardants containing salt, driver blade impact, high humidity, and special applications. In short, check before you drive! I mean there are chemicals out there that reek havoc on galvanized coatings. And remember we are not responsible for you or your customer's judgment when it comes to jobs that would, might, or could possibly require corrosion resistant nails. So get good advice from your wood manufacturer or from the specifications, because it is better to be safe than sorry.



The Coating

The coating you see on Halsteel gun nails is not vinyl like the coatings on sinkers and framing nails commonly used on jobsites for rough framing applications. Vinyl coatings are primarily used for lubrication and have no withdrawal value. Halsteel's coating is an environmentally friendly water-based formula of the thermal-plastic resin variety. Thermal plastic resin is the long way of saying the coating has adhesive properties, and not only helps lubricate our nails while driving into the wood, but also assists in holding the nail in the wood. As the nail is being driven into the wood, the formula heats up and liquefies. It then bonds itself to the steel in the nail and the wood fibers. Although this type of coating is not mandatory, we provide it as an extra value to the builder, which helps him supply a better product. We use a water based formula in order to conform to federal and state environmental and air quality standards..



The Shiny or Chrome

finish on our nails is Electro-galvanized or zinc plating (check the label on the box to be sure). This coating is a very first step to corrosion resistance. No coating will stop corrosion, but galvanized nails will slow down the corrosion process. The principal is easy, the more coating, the better the protection from the elements. Halsteel galvanized nails are beautiful in appearance with their shiny exterior, almost looking like jewelry instead of nails. This type of nail should be used where light corrosion resistance is required. This coating can be ordered to an ASTM A641/ASTM A641M 97 Class 1 specification or to a commercial or minimal thickness, as the application requires.



True Hot Dip Galvanized

As stated before, the amount of corrosion resistance is directly proportionate to the amount of coating on the outside of the nail. Halsteel real hot dip galvanized nails are down right ugly with galvanizing. They are galvanized to meet or exceed ASTM A153 Class D, the ASTM specification for hot dip galvanized hardware and fasteners. This coating would be used for applications demanding heavier corrosion resistance (always check with the wood manufacturer or the specifications to see what type of coating is required).



Stainless Steel Gun Nails

provide the Ultimate Corrosion Resistance. These nails beat the coating off the galvanized nails and at some point will corrode, but depending on the application you'll probably have to ask your grand children about it. This is by far the best bet for corrosion resistance. Brace yourself, it is pricey, but a fraction of the cost of replacing the wood.