

NanoPrep is a revolution in surface preparation technology allowing industrial coating application in areas where it is difficult, cost prohibitive or impossible to perform surface preparation by abrasive grit blasting. Nanoprep is a one component, waterborne, acrylic co-polymer composition that reacts and cross-links with rusted steel surfaces, clean steel, and painted steel, creating superior anticorrosive properties.

Upon application of the product to the substrate “Nanofusion” takes place enabling deep penetration into the rusted substrate creating a stable, high bond strength base to which non solvent based or low solvent content top coats can be applied. The adhesion of top coats such as International, Jotun, PPG etc to NanoPrep is outstanding.

There is no doubt that the best form of surface preparation is abrasive grit blasting which is usually a requirement if the coating manufacturers’ maximum adhesion values are to be achieved. However, NanoPrep will typically achieve 70 to 80% of the coating manufacturers stated adhesion values for a fraction of the cost of conventional surface preparation techniques.

Accompanying this document are the ‘Technical Data Sheet’ and ‘Instructions For Use’. These data sheets are an essential reference material to be examined prior to the use of NanoPrep.

Typically, two coats of NanoPrep will be required before applying your selected top coat. A third coat may be required depending on the amount of rust and whether a uniform colour can be achieved after your second coat. A vast number of top coats can be applied over NanoPrep including acrylic, water based steel protection paints, two pack epoxies, polyuria coatings and coatings containing no more than 16% solvent. NanoPrep is NOT suitable for use with solvent based or silicon based paints.

Before application of NanoPrep the substrate should be washed to remove residual oils, salts and contamination. In extreme cases, a hot detergent wash may be required.

NanoPrep works at its best when applied to “tight rust”. To achieve a suitable substrate prior to application of NanoPrep, surface preparation by water blasting at 3500psi or mechanical preparation by wire brush is appropriate.

NanoPrep can be applied to a “damp” substrate but the substrate should not be wet as this will thin the product and reduce its effectiveness.

Thorough mixing of NanoPrep is essential as the product may separate whilst in storage with water rising to the top of the container. Mixing should be performed with a high torque drill at LOW SPEED. High speed mixing will create air bubbles in the product which must be removed by passing the product through a fine paint filter.

The first coat of NanoPrep is applied directly onto the substrate and you will see the product penetrate into the “tight rust”. The Nano technology (particles less than one micron in size) work the product deep into the substrate, converting the iron oxide to iron phosphate and incorporating it into the high build primer. The initial coat of NanoPrep may appear somewhat “motley” and inconsistent in colour.

After approximately two to three hours (ambient temperature 20oC and 50% RH), it is necessary to apply a second coat straight away. The second coat is applied directly over the stabilised first coat. This coat should comprehensively cover the first coat and a very uniform, consistent in colour finish should be achieved.

If a high quality, uniform surface finish is not apparent a third coat may be required. The third coat is only required when heavy rust is present on the initial, untreated substrate.

Please refer to the Instructions for use for full over overcoating information. Two pack top coats should be left for a minimum 12 hours before application over NanoPrep. Water based coatings can be applied after approx. 2-3 hours.

NanoPrep is non dangerous goods, non-flammable, contains no VOCs and clean-up is performed by using tap water.

Again, thank you for choosing to use NanoPrep. Please reach out to our team should you have any questions.

Many Thanks,

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