

hydrate 80

rust killer / barrier system

Product Function



In many situations abrasive blast cleaning of corrosion is not practical and the use of sanders, grinders or abrasive disks removes good metal in an attempt to eradicate pitted rust, hydrate 80 is excellent in such conditions as it activates on clean and rusted steel alike. hydrate 80 will outperform other rust converter products. It has been successful in rigorous independent tests by the German TUV organisation. hydrate 80 has an intentionally low viscosity that provides the necessary penetrative properties to fully wet-out and convert corrosion.

hydrate 80 is a dual function product, unlike traditional corrosion treatments, hydrate 80 complexes existing corrosion and provides a superior stable barrier to prevent further attack. The cross-linking polymer used to provide the barrier function self-etches to the metal surface forming an ideal base for further coatings, paints or anticorrosion wax.

hydrate 80 is inert to most common paint finishes. hydrate 80 contains no chlorine shown to transform into hydrochloric acid in rust converter applications, this transformation causes under-film blistering and destruction of paint finishes or other coating products.

How to Use



As with all treatments preparation is important: remove loose, flaky rust with a wire brush and abrasive paper, or more favoured power tools.

The active ingredients of hydrate 80 must reach the oxidising surface of the steel. Thoroughly degrease the area and wash well with clean water to remove dust and contaminates. Failure to degrease area properly will cause "holidays" or fish-eye like flaws in the barrier.

Shake vigorously and pour sufficient quantity into a non-metallic container, do not return unused product to the original container, contamination transferred in this way will activate the product.

Apply sparingly two coats at 30 minutes interval. The first coat should be worked into pitted areas and then smoothed by brush strokes in one direction. Excess application should be avoided. The second coat should be applied at a 90 degree angle to the first. For best results leave for 24 hours after which finishing coats may be applied. Where rapid work progress is required, hydrate 80 can usually be over coated after 3 hours without performance loss. hydrate 80 can be brush or spray applied, brush application is preferred. Spray application should be made by first applying light mist coat which is left to tack dry (5-10mins) then apply full coat not to excess. Flattening back of coats is possible using dry wet or dry paper; care should be taken not to abrade through the barrier. Use of hydrate 80 below 10°C will result in slow reaction time and barrier formation.

As hydrate 80 will activate on clean steel the affected area should be cleaned beyond the visibly corroded surface, this will ensure complete treatment.

Wash equipment with water. Wash hands with soap and water after contact and in case of contact with eyes wash with plenty of running water and seek medical attention.

hydrate 80 is an excellent base for a wide range of paint finishing systems. It is preferable but not essential to use a good quality primer before applying topcoats. Due to the many types of paint formulations and curing processes test compatibility of products at small scale before use.

Technical Data

Flash Point:	Waterborne, thus irrelevant
Storage:	Up to 1 year unopened. Temp range: +5 to 35°C
Solids:	52%
Drying Time:	30 mins (approx) @ 15°C
Appearance:	Off white grey / blue tint. Black after use

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