

QUALITY

INTELLIGENT DESIGN

EXCELLENCE

PARTNERSHIP

INTEGRATED SOLUTIONS



E-COAT 1000 CORROSION  
PROTECTION

 **manuli**<sup>®</sup>  
HYDRAULICS

## WHY IS FITTING CORROSION SUCH A BIG PROBLEM?

Corrosion of fittings can have severely damaging effects on the life and reliability of hose cases where fittings are becoming corroded at an unacceptable rate, ISO/TS 17165-2:2017 requires upgrading the fittings to ones with an alternative plating material suitable for the environment in which they will be used.

Manuli's standard **E-Coat 500** plating is a first-class, long lasting solution which offers up to 500 hours in standard salt-spray tests, versus the required minimum of 144 hours as per SAE J516 (ISO 9227).

### E-Coat 1000 - Over 1,000 hours of corrosion protection

But Manuli have upped their game even further and can now offer the new **E-Coat 1000** plating which can double the corrosion resistance of standard E-Coat 500 plating with minimal cost increase.

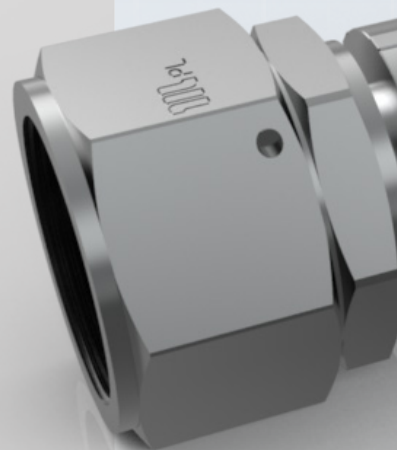
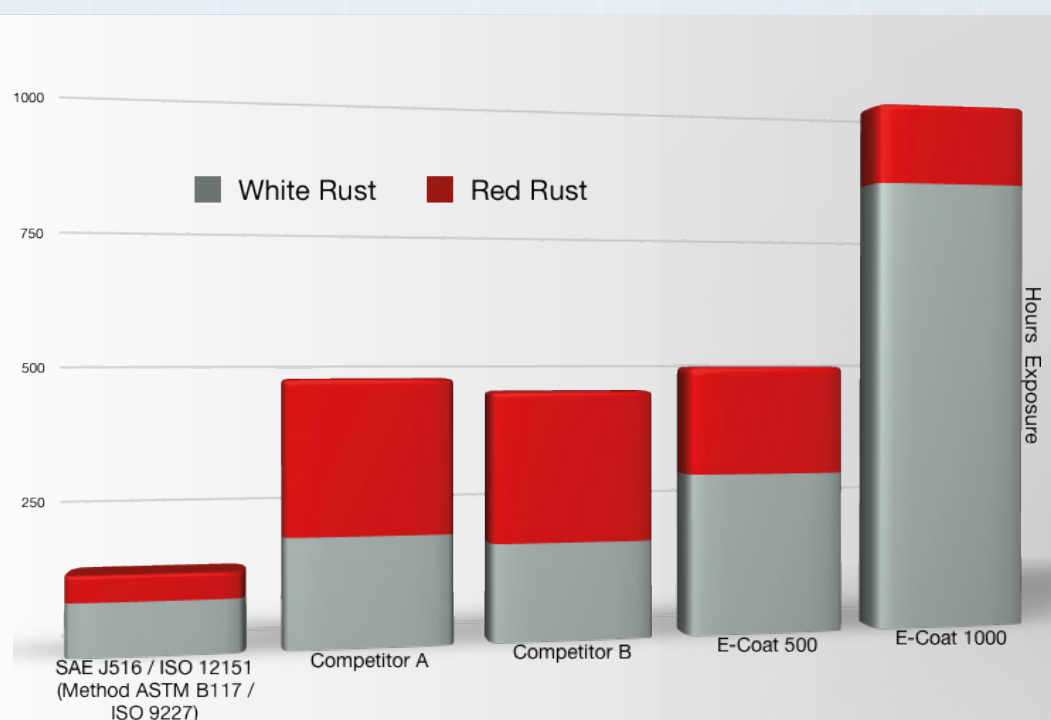
#### E-Coat 1000 offers:

- High resistance in crimped conditions eg: ferrules and crimped back nuts
- Enhanced performance of corrosion resistance compared to the standard E-Coat 500 plating (before red corrosion in standard salt spray test conditions ASTM B117 and ISO 9227\*)
- Higher resistance to abrasion and handling than standard plating
- Full compliance with the European Directives REACH 1907/2006/EC, RoHS 2011/65/EC, ELV 2002/95/EC
- E-Coat 1000 is available as an option on all Manuli hydraulic fittings and flat-face quick couplers

**E-Coat 1000 plating is the optimum solution for applications in severe environments and OEM specifications. It also offers even longer durability in standard hydraulic applications.**

### Best-In-Class Corrosion Resistance - Putting it to the test

Many other fitting manufacturers declare the superb corrosion resistance of their fittings, so we tested them against the best of the competition. The results speak for themselves. The best comparable competitor **both declare 1,000 hours to red rust**, however, they both began to show red corrosion after less than 500 hours and were seriously corroded by 750 hours. In contrast, the Manuli sample with E-Coat 1000 was free of signs of white corrosion after more than 1,000 hours in salt spray conditions. Even crimped fittings with E-Coat 1000 lasted over 750 hours before showing significant signs of corrosion, despite the damage to the integrity which occurs during the mechanical deformation process of crimping.



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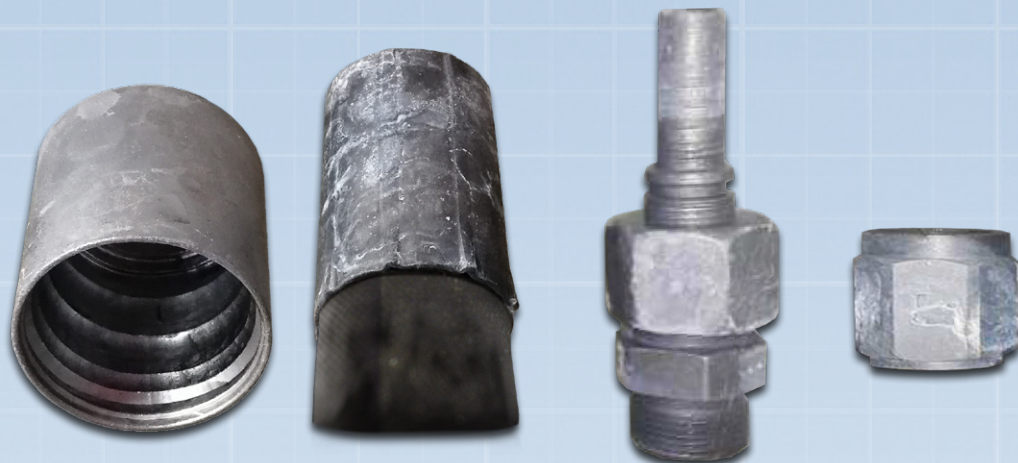
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*E-Coat 1000 after 1,000 hours ASTM B117 (ISO 9227) salt spray test*



*Competitor A after 1,000 hours ASTM B117 (ISO 9227) salt spray test*



*Competitor B after 1,000 hours ASTM B117 (ISO 9227) salt spray test*



To take advantage of this  
game-changing new plating, simply  
add the suffix “NK” to the part number to  
upgrade your plating to E-Coat 1000 when placing your  
orders. Quantities and box sizes are as per standard fittings.

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\*1,000 hours applies to pristine parts; 750 hours for crimped parts



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