Carboset® CR-3090 is an APEO and formaldehyde-free styrene-acrylic copolymer emulsion. This water-borne resin technology offers a single resin for formulating primers, topcoats and direct-to-metal, one-component metal coatings.

Corrosion Resistance and Adhesion Performance
Carboset CR-3090 performs well in ASTM B-117 salt spray performance with surface performance of #10 ratings and scribe creep results of #7 in ASTM standards. Very strong “5B” adhesion on multiple metal substrates lends to this polymer’s corrosion resistance performance. Carboset CR-3090 has proven results in SAE J2334 Cyclic Salt Spray testing after 20 cycles and 480 hours of rust-free performance.

Chemical Resistance for Industrial Applications
When measured against eight aggressive industrial fluids for evaluation, Carboset CR-3090 compares favorably over key commercial benchmarks. Designed for ISO 120944 C2-C3 environments and classified as light to medium duty industrial end uses, this polymer is effective in both DTM and topcoat applications such as elevated tanks, agricultural and farm implements, E1 category rail exteriors and facility maintenance painting for piping, railings and safety guarding. Carboset CR-3090 can reduce the amount of repainting and helps coatings look better longer.

Flexibility at the Core
Elevated tanks, structural steel and steel bridges flex or expand and contract. Therefore, coatings applied to the substrates must flex as well without micro-fracturing, cracking or losing adhesion. Carboset CR-3090, with a Tg of 37°C, F pencil hardness, 1/8” mandrel bend performance, 160 lb. impact and excellent polymer elongation makes it a proven, cost effective polymer choice for formulators requiring structure property relationships and formulation flexibility.
FEATURES & BENEFITS

- SALT SPRAY PERFORMANCE EXCEEDING 500+ HOURS
- VERY HIGH DIRECT/INDIRECT IMPACT RESISTANCE AND POLYMER FLEXIBILITY
- CAPABLE OF MID-HIGH GLOSS, ONE-COMPONENT FORMULATIONS
- EXCELLENT 5B CROSS-HATCH ADHESION ON INDUSTRIAL METAL SUBSTRATES
- GLOBAL MANUFACTURING AND SUPPLY

CARBOSET® CR-3090

500+ hrs. ASTM B-117 Salt Spray, CRS @ 3 mil DFT

COMMERCIAL BENCHMARK

500+ hrs. ASTM B-117 Salt Spray, CRS @ 3 mil DFT

Chemical Resistance


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