

News

# **evolve™ the first chromium-free etching process for plating on plastics**

[Download Article](#)

This innovative pre-treatment for plating on plastics (POP) emphasizes sustainability and Cr(VI)-free technology, and enables our customers – particularly automotive OEMS – to environmentally achieve their evolving product needs.

[evolve™](#) offers an environmentally sustainable solution for the full supply chain including applicators, Tier 1s, and manufacturers. It has been tested and qualified to meet the high-quality specification requirements of automotive OEMs (including VW and FCA). IKEA also sees the benefit of approving evolve™ for its products.

MacDermid Enthone is committed to sustainable excellence within our surface finishing supply chains. evolve™ is part of our solution to remove Substances of Very High Concern (SVHC) – it's PFOS-free and both REACH and China waste water compliant.

evolve™ is the first production-proven chromium-free etching process for plating on plastics. Successfully rolled out in the Americas, Asia, and Europe, evolve™ is suitable for most applicators of plastic treating substrates such as ABS and ABS/PC for all industry segments: automotive; sanitary; building, hardware and fashion/cosmetic. With a wide working window, the evolve™ process is suitable to plate small-to-large and flat-to-complex geometry parts.

### **Benefits include:**

- Superior adhesion
- Excellent optical appearance of the final layer
- Versatile and adaptable process cycle
- Simple and effective process control
- Resistance to rack metallization

evolve™ delivers new POP standards without hexavalent chromium to ensure optimum performance when evaluated against demanding thermal cycling and peel strength tests, as well as other requirements.

[Download Article](#)