



AMERSHIELD™

The Unconventional Polyurethane



**PPG Protective &
Marine Coatings**

Bringing innovation to the surface.™

AMERSHIELD™

A high-build polyurethane coating that delivers a beautiful flexible finish and provides years of corrosion protection.

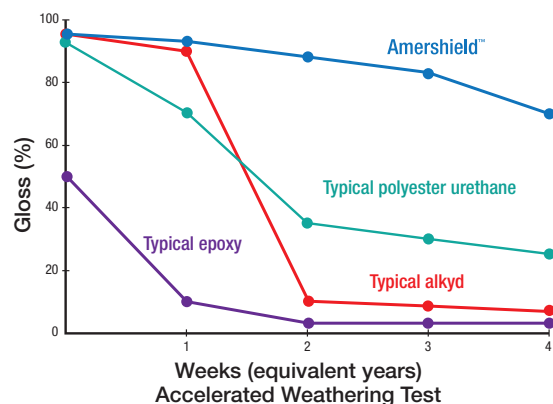
Features & Benefits

Amershield's unique design properties separate it from its competitors, making it the premiere name in polyurethanes.

- High solids/low VOC – 73% solids and exceeds EPA VOC requirements significantly better than standard polyurethanes
- High film build – Builds to more than twice the thickness of conventional polyurethanes in a single coat, saving significant labor costs
- Long-lasting color and gloss – *Amershield* maintains its glossy finish, significantly outperforming competitors
- Durability – *Amershield* is designed for tough industrial applications and stands up to corrosion and abuse unlike many polyurethanes that are designed as decorative coatings
- Versatile – Apply *Amershield* directly to steel, aluminum or masonry in a single coat

Long-lasting Gloss & Color

With most coatings, high-volume solids and high-gloss finish are not compatible features. But *Amershield* has both. Its excellent flow-out characteristics yield a high-build, long-lasting, durable industrial finish. In tough accelerated weathering tests against three conventional coatings (a high-performance alkyd, a polyester urethane and an epoxy), *Amershield* significantly outperformed all three, retaining far more of its original gloss. The chart below shows the detailed test results.

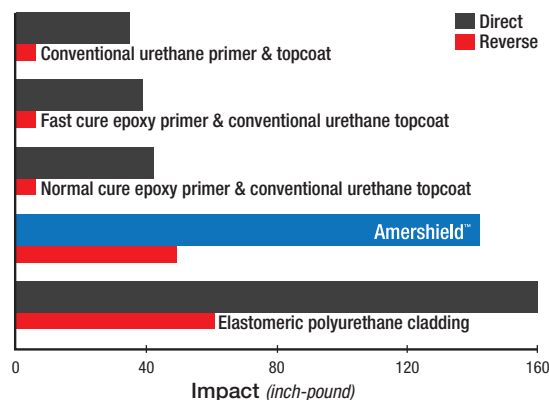


High Build Equals Cost Savings

Amershield's greater film thickness not only protects steel and concrete surfaces better, it's more cost effective than conventional alkyds or polyurethanes. With a 5-mil DFT, *Amershield* achieves more with a single coat than traditional alkyds do with three coats, saving significant labor costs.

Flexible & Impact Resistant

Amershield withstands deformation much better than conventional polyurethanes, which typically fail at 30 inch-pounds when subjected to the ASTM D2794 direct-impact test. *Amershield* withstands more than four times as much impact—performance that puts it in the same league with costly, hard-to-apply elastomeric polyurethane claddings and makes *Amershield* ideal for flooring and materials handling applications. What's more, *Amershield* is capable of withstanding ten times more reverse impact than conventional polyurethanes, making it an ideal choice for demanding interior and exterior applications such as silos, hoppers and railcars.



Versatile & Easy to Apply

In protected environments, apply *Amershield* directly to metal in a single coat. Spray, brush or roll *Amershield* over clean, blasted, or phosphatized steel, as well as many other substrates, including aluminum and masonry.

For maximum corrosion resistance and durability, use it as a topcoat over anti-corrosive primers. *Amershield* can also be used as a refresher coat over intact, old paint in most situations.

Amershield is available in a broad spectrum of colors and can even be used as a graffiti-resistant coating when combined with Duraprep® 400.

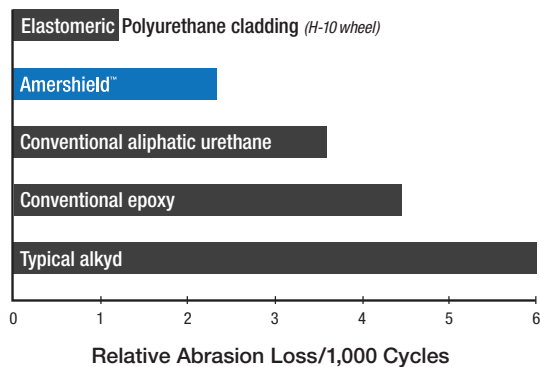


Combine with AMERLOCK® Series for Superior Coating System

Applying *Amershield* (aliphatic polyurethane) topcoat over *Amerlock* 400, *Amerlock* 400 VOC, *Amerlock* 2 or *Amerlock* 2 VOC results in Lockshield, a superior system that is as rugged as it is aesthetically pleasing. This easy-to-apply system is ideal for direct application to both metal and concrete, and offers good chemical, abrasion and stain resistance. When applied to a wire brush-cleaned surface, this system complies with world-recognized standards such as ISO 12944, C5-I high and C5-M high.

Outstanding Abrasion Resistance

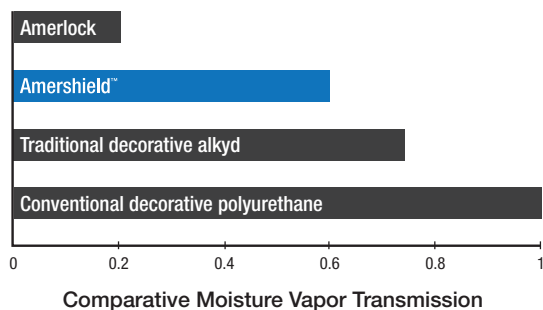
When it comes to abrasion resistance, *Amershield* outclasses conventional polyurethanes. When subjected to the CS-17 abrasive wheel test against three popular coatings, *Amershield's* loss rate was a third less than the conventional aliphatic urethane and less than half that of the best non-urethane product, a conventional epoxy.



The reason for this outstanding performance is *Amershield's* high-build film, which is twice as thick as a standard aliphatic urethane. Only costly, hard-to-apply elastomeric polyurethane claddings have a better abrasion resistance than easy-to-apply *Amershield*.

Corrosion Resistant

Amershield delivers far better barrier properties and corrosion resistance than conventional polyurethanes. *Amershield* provides not only an attractive decorative finish but a level of corrosion protection that makes it eminently suitable for general industrial use, with significantly better performance results than competitive polyurethanes. *Amershield* also resists splash and spillage of a wide range of chemicals and environmental conditions that can cause conventional decorative coatings to fail.





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PM17704/69

6/2014

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