

# PPG AMERSHIELD™

The unconventional polyurethane





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

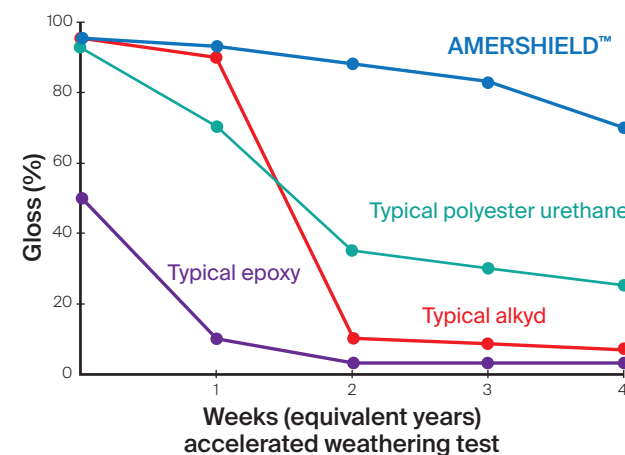
### Features and benefits

*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

### 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.



### Long-lasting gloss and 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 above shows the detailed test results.

### Versatile and easy to apply

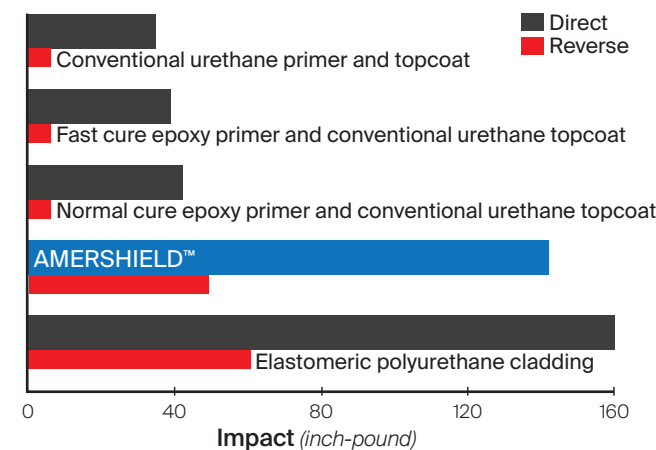
In protected environments, apply *Amershield* directly to metal in a single coat. Spray, brush or roll *Amershield* over clean, blasted, or phosphatized steel, as well as many other substrates, including aluminum and masonry.

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.

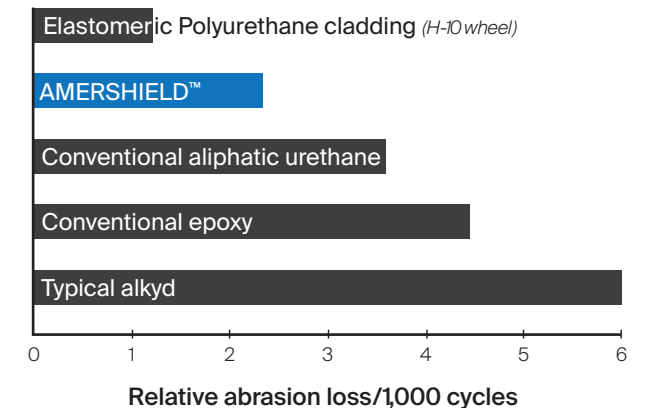
### Combine with AMERLOCK® Series for Superior Coating System

Applying *Amershield's* (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.



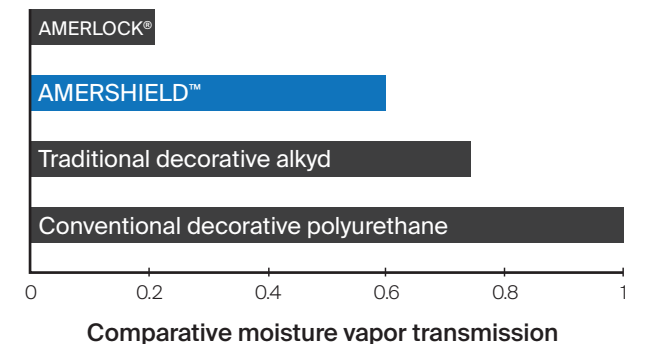
### Flexible and impact resistant

*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.



### 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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