

valspar
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Valspar Valde™ ECP



Edge-to-Edge Protection

Best-in-class edge protection with a smooth, superior-looking finish.

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valde™ 

All of your questions, answered.

Valspar Valde™ ECP

What is Valspar Valde ECP?

- Valspar Valde Edge Coverage Powder is Valspar's revolutionary "Dust on Dust" system for the heavy-duty machinery market. Traditional two-coat powder coating solutions require a cure after the primer and another cure after the top coat. While the level of protection is comparable if both systems are engineered for edge coverage, the Valde ECP solution allows for the application of a powder primer and top coat with a single cure, eliminating the need for intermediate cure.
- ECP is one of Valspar's many platforms that protects against edge corrosion. Valspar will work with you to determine the best product solution for each situation.

What technology/chemistry is this?

- ECP combines extremely durable resin chemistries already in use today with proprietary, innovative additives and nanomolecules. The resulting powder system delivers excellent corrosion protection and superior weathering capabilities.

Who should use Valspar Valde ECP?

- ECP will work for any Heavy Machinery manufacturer searching for the edge coverage and corrosion resistance of a functional coating combined with the weatherability and aesthetics of a smooth top coat. The product specifically meets the needs of manufacturers who produce products with sharp edges.

How does ECP work?

- The ECP system enables two layers of powder to utilize a unique combination of compatible resin technology and proprietary nanomolecules. In the cure phase, these technologies react, producing a final product that simultaneously delivers best-in-class edge protection, overall corrosion protection and superior weathering, all with a smooth, superior-looking finish.

Can this be applied manually or is a fully automatic system needed?

- The ECP system is designed to be used with any system and is in commercial use today in both manual and automatic systems.
- Independent of Valde ECP, automatic systems are best for optimal results in cost performance and material efficiency.

Does the ECP system require a modification to existing manufacturing plants?

- A modular augmentation to current lines should be sufficient to run the ECP system. Your local Valspar representative can provide more information.

What colors are available?

- Valspar can match any color needed for the Heavy Machinery market.

Do the primer and top coat need to be the same color?

- Valspar recommends the same color for the primer and top coat.

If I spray multiple colors, will one primer accept any weatherable top coat?

- Today Valspar recommends using the same color for the primer and top coat. Further enhancements to this technology platform are in development. Your local representative can provide more details about the optimal product combination for your operation.

If the coats are the same color, how can you tell enough top coat has been applied?

- The ECP primer is formulated with a small amount of marker pigment. When exposed to specific conditions, this marker pigment is visible as a contrast color on areas that require additional top coat.

What happens if a spot is missed when applying the top coat?

- The surface smoothness of areas without full top coat coverage will be lower, but the overall performance of the system should remain unchanged, including weathering performance and corrosion resistance.

Will ECP work with IR cure?

- Yes, however Valspar strongly recommends working with our advanced technical team to validate that your system will work correctly.



Can both the primer and top coat be reclaimed?

- Yes. Please consult your Valspar representative for more details.

What is the suggested thickness of ECP to be applied to parts?

- Recommended film thicknesses are based on performance requirements as specified by end users. In general, they will not be materially different when compared to other two-coat powder systems.

What are the benefits of ECP over traditional powder solutions?

- The ECP system allows customers to apply two coats of powder to a part while running it through the cure process only once. This co-cured system essentially eliminates all concern of potential inter-coat adhesion failures between an independently cured primer and topcoat.

| Advantage | Estimated Savings |
|--|--------------------|
| Eliminated capital expenses associated with a second oven | \$50,000–\$250,000 |
| Eliminated cooling requirements and conveyer equipment | \$50,000–\$250,000 |
| Eliminated operational expense (gas, maintenance) of a second oven | \$75,000–\$250,000 |
| Reduced footprint dedicated to designated part-finishing areas | Up to 50% |
| Reduced cycle time associated with the finishing process (compared to two-coat powder) | 30–40% |
| Reduced work-in-process inventories | Up to 50% |

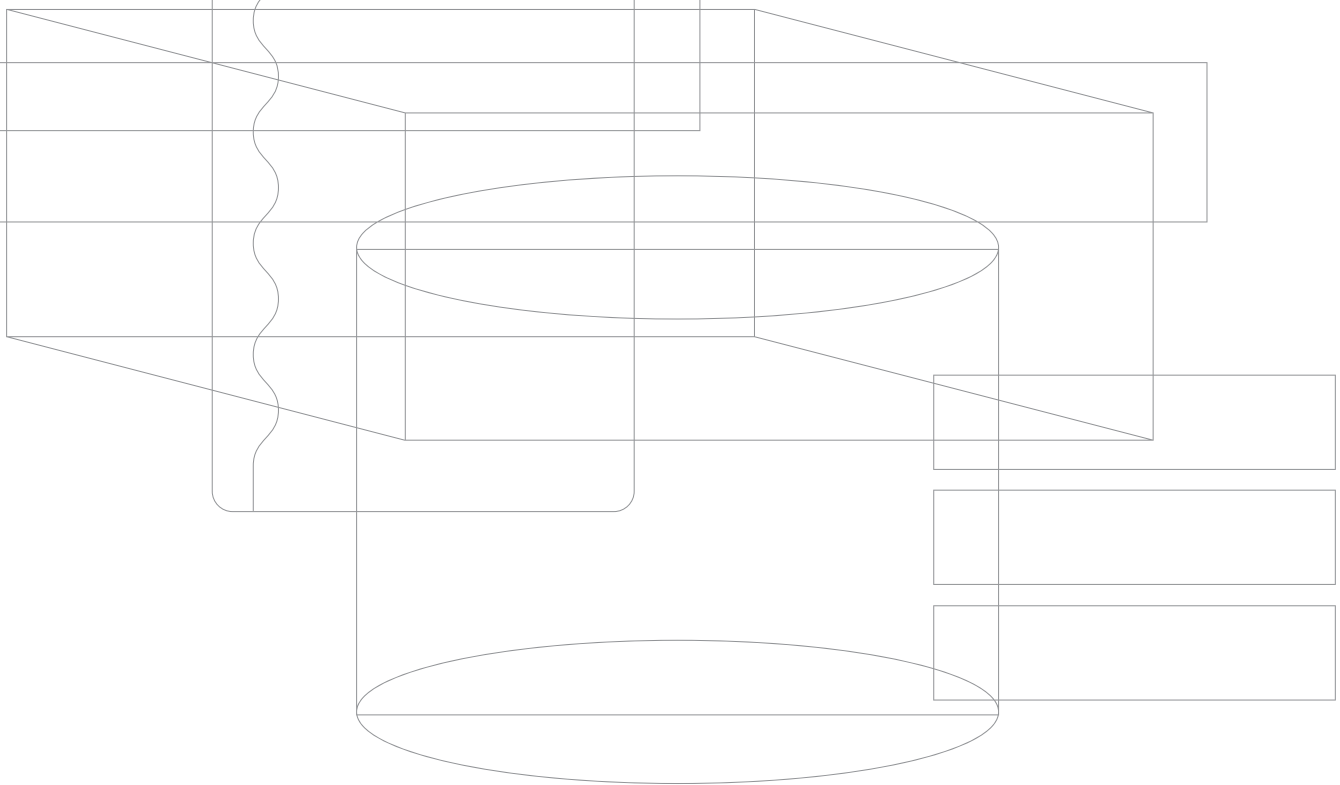
- For a customized estimate of potential savings, please contact your local Valspar representative.

What are the benefits of ECP over e-coat solutions?

- The ECP system allows customers to apply two coats of powder to a part while running it through the cure process only once. This co-cured system essentially eliminates all concern of potential inter-coat adhesion failures between an independently cured primer and topcoat.

| Advantage | Estimated Savings |
|--|---------------------|
| Reduced capital expenditures at installation | \$1,000,000 plus |
| Eliminated cooling requirements and conveyer equipment | \$50,000–\$250,000 |
| Eliminated expense of intermediate cure cycle | \$75,000–\$250,000 |
| Reduced footprint dedicated to designated part-finishing areas | Up to 50% |
| Reduced cycle time associated with the finishing process | 30–40% |
| Reduced work-in-process inventories | Up to 50% |
| Reduced annual maintenance and waste expenses | \$100,000–\$150,000 |

- Improved environmental footprint:
 - Valspar Valde ECP has virtually zero VOC emissions, compared to the average 0.6 lbs./gal. VOC associated with standard electrocoat primers.
 - Valspar Valde ECP makes essentially zero contribution to the plant waste stream compared to the moderate liquid waste generated by electrocoat primers.
- ECP delivers unbeatable edge corrosion resistance, easily outperforming traditional electrocoat primers that struggle to deliver edge corrosion resistance. Valde ECP even significantly outperforms “edge enhanced” electrocoat primers that have recently been developed for commercial use.
- Heavy metal mass parts run through an e-coat process requiring long wait times to cool down.
- For a customized estimate of potential savings, please contact your local Valspar representative.



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