

## Markar Standard Powder Coated Finishes

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### Tough, Durable, Long-Lasting

Designed for general-purpose interior and exterior use and applications where maximum chemical and solvent resistance is required.

### Performance Properties

The data below is based on 24 gauge Bonderite 1000 panels with 1.5 to 2.0 mills of high gloss formulation.

**Adhesion (ASTM D-3359B):** There is no lifting of 1/8" squares of coating between scribed lines in crosshatch adhesion testing using pressure sensitive adhesive backed tape.

**Pencil Hardness (ASTM D-3363):** 2H – 4H

**Flexibility (ASTM D-522 modified):** The coating withstands a 180° bend over a 1/4" diameter mandrel without cracking or loss of adhesion.

**Impact Resistance (ASTM D 2794 modified):** The coating withstands 160 inch-pound impacts, both direct and reverse, without cracking or loss of adhesion using the standard Gardner impact tester.

**Abrasion Resistance (ASTM D-4060 modified):** The weight loss of coating after 1,000 cycles on a Taber abraser equipped with CS-10 wheels and operating under a 1 kilogram loading per wheel is on the order of 35 to 50 milligrams.

**Salt Spray Resistance (ASTM B-117):** Bonderite 1000 steel panels, in a scribed condition, exhibit no undercutting after 1,000 hours in 5% salt spray testing at 95°F and 95% relative humidity. There was no rusting or blistering on the panel face away from the scribe.

**Humidity Resistance (ASTM D-2247):** Bonderite 1000 steel panels in an unscribed condition exhibit no effect after 1000 hours exposure to 100% relative humidity at 100°F.

**Chemical and Solvent Resistance:** After 60 days immersion in the test fluid, the following data was obtained for epoxy powder coatings:

15% Hydraulic Acid	No Effect
Lacquer Thinner	No Effect
Dilute "HTH" Pool Chemical	No Effect
15% Sulfuric Acid	Pinhole Rust
15% Caustic Soda	#8 Blisters
Ammonia Hydroxide	#8 Blisters
Petrochloroethylene	No Effect
15% Acetic Acid	#4 Blisters
Gasoline	No Effect

Verification of resistance properties should be made for each chemical or solvent proposed for use with the coating.



ASSA ABLOY