

PPG SIGMASHIELD™ 880

Multipurpose surface-tolerant epoxy for protecting assets in extreme industrial and marine environments

Our one-coat solution saves time, reduces costs and extends service life.



Anti-corrosive coating for extreme environments

At PPG, we develop coatings that enhance and protect a wide range of assets in some of the world's most demanding industries and applications.

Part of the PPG SIGMASHIELD family of reinforced products, PPG SIGMASHIELD 880 is a multipurpose epoxy coating specially formulated to resist corrosion under extreme conditions.

Cost effective solution

Easy to apply and fast drying, PPG SIGMASHIELD 880 reduces the time and expense associated with surface preparation, while its superior resistance to abrasion, impact and seawater lowers maintenance costs and prolongs service life.

As the product can be rapidly immersed and continues to cure after seawater immersion, it is particularly suited to structures exposed to tidal movements and surges, and for offshore splash zones.





Markets and applications

Infrastructure

- Caissons
- Pipework
- Decks and walkways
- Water and waste water facilities

Petrochemical

- Tank externals
- Pipework
- Jetties
- Pilings
- Walkways

Mining

- Conveyors
- Slurry lines
- Sluice gates

Power

- Condensate boxes
- Renewable energy applications

Offshore

- Splash zones
- Decks, walkways and topsides
- Helidecks
- Jackets and caissons

Additional

- Cement manufacturing
- Pulp and paper
- Cooling towers
- Support structures

Faster application and enhanced finish

As a fast drying, single coat system, PPG SIGMASHIELD 880 speeds up the coating process and minimizes downtime.

Application is simplified further by the coating's high surface tolerance (suitable for damp- or wet-blast clean substrates), extended recoat window and high film thickness that is achieved in just one coat.

The benefits of two coats – in one



Industry leading performance

Customer benefits	Product features
Long service life, severe-use capability	Superior abrasion- and impact resistance
	Outstanding seawater and corrosion resistance
	Improved cathodic disbondment protection
	Excellent chemical splash and spill resistance
Minimize downtime, shorten return-to-service time	Shorter dry-to-touch time
	Shorter time for seawater exposure and immersion
	Continues to cure upon immersion
Efficient application	Better surface tolerance (suitable for damp- or wet-blast clean substrates)
	Extended recoat window
	High-film thickness in one coat
Provides aesthetic options	Available in a range of colors



Trusted and tested

Our PPG SIGMASHIELD 880 coating has been rigorously tested by both internal and external testing laboratories, and complies with the following international standards:

- NORSOK M501 Revision 5 System 7
- ISO 12944-6 C5M High
- ISO 12944-6 IM3 High
(Including hydrojetted substrate)

Our product has also outperformed those of our competitors in several key ASTM and ISO performance tests.

Top image: Faster dry-time

Middle image: Faster immersion time

Bottom image: Excellent crack resistance at high-film thickness

Splash and spill resistance

In addition, PPG SIGMASHIELD 880 exhibits good chemical resistance with splash and spill resistance to the following materials:

- Ethanol
- Butanol
- Propanol
- 5% Potassium Hydroxide
- 5% Sodium Hydroxide
- 10% Sodium Chloride
- 10% Ammonia Solution
- Sodium Carbonate
- Iso-octane
- Toluene
- Xylene
- Butyl Acetate
- Unleaded gasolines
- MTBE
- Crude Oil
- Jet Fuel
- MIBK





Application

Preparation

ISO - Sa2 or Sa21/2, SSPC SP6, ST3 or Pt3, hydrojetted to VIS WJ2/3 L

Application

One coat 200-1000 microns (8-40 mils)

Color

Available in a range of colors.



Surface preparation tolerance with excellent corrosion performance



Visit ppgpmc.com or contact:

Asia Pacific ☎ +86-21-6025-2688 ✉ ppgpmc.ap@ppg.com

Europe, Middle East and Africa ☎ +32-3-3606-311 ✉ customers@ppg.com

Latin America ☎ +57-1-8764242 ext. 201 ✉ ppgpmcandean-ca@ppg.com

North America (US & Canada) ☎ +1-888-9PPGPMC ✉ PMCMarketing@ppg.com



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