



## **SIGMASHIELD™ 880**

ABRASION RESISTANT, SURFACE TOLERANT, MULTI-PURPOSE EPOXY FOR SEVERE ENVIRONMENTS

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# SIGMASHIELD 880



## PPG PROTECTIVE & MARINE COATINGS UNRIVALLED PERFORMANCE & PROTECTION

PPG Protective & Marine Coatings (PPG) is a world leader in protective and marine coatings. We develop products that protect customers' assets in some of the world's most demanding markets and environments including:

- CIVIL INFRASTRUCTURE
- MARINE NEW-BUILD
- MARINE DRY DOCK
- MARINE SEA STOCK
- RAIL
- OFFSHORE
- PETROCHEMICAL
- POWER

Our coatings provide unrivalled performance for asset owners, contractors, fabricators and applicators across the globe, helping our customers meet the challenges they face today and tomorrow.

**EXPERIENCE, INNOVATION AND INTEGRITY –**  
that is what makes PPG the ideal coatings partner.

## THE NEW STANDARD FOR PROTECTION IN EXTREME ENVIRONMENTS

Given the ever increasing drive for enhanced performance and improved cost efficiency, protecting valuable assets in extreme environments with the correct coating choice is more important than ever. Now, thanks to *SIGMASHIELD 880*, a new coating from PPG Protective & Marine Coatings, asset owners and engineers can achieve a new standard in the protection of valuable assets while saving significantly on cost through efficient application and improved performance.







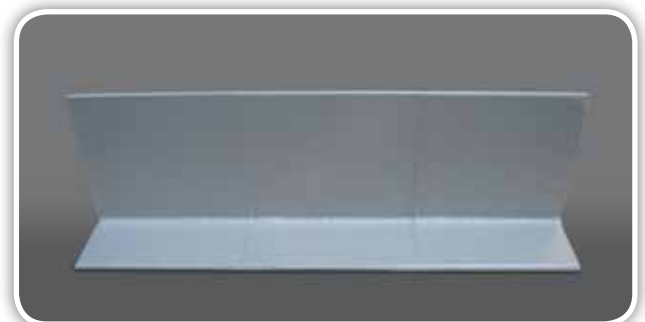
**BETTER SEA WATER AND CORROSION  
RESISTANCE THAN INDUSTRY STANDARD**

## MULTI-PURPOSE, SUPERIOR ABRASION RESISTANCE, TOLERANT SURFACE PREPARATION, EXTENDED SERVICE LIFE

*SIGMASHIELD 880* is an abrasion-resistant, surface-tolerant, multipurpose epoxy designed specifically for application in the world's most challenging environments. *SIGMASHIELD 880* represents a new standard in the protective coatings industry combining superior performance in:

- SINGLE COAT APPLICATION
- FASTER DRY TIME
- ABRASION RESISTANCE

*SIGMASHIELD 880* provides savings by reducing the time and expense associated with surface preparation as well as providing greater application efficiency and increased finish quality.



**EXCELLENT CRACK RESISTANCE  
AT HIGH FILM THICKNESS**

# SIGMASHIELD 880



## SUPERIOR ABRASION RESISTANCE COMPARED TO INDUSTRY STANDARD PRODUCTS

### INDUSTRY LEADING PERFORMANCE PROPERTIES

CUSTOMER BENEFITS	PRODUCT FEATURES
<ul style="list-style-type: none"><li>• Long service life, severe use capability</li></ul>	<ul style="list-style-type: none"><li>• Superior abrasion and impact resistance</li><li>• Outstanding sea water and corrosion resistance</li><li>• Improved cathodic disbondment protection</li><li>• Excellent chemical splash and spill resistance</li></ul>
<ul style="list-style-type: none"><li>• Minimise downtime, shorten return-to-service time</li></ul>	<ul style="list-style-type: none"><li>• Shorter dry to touch time</li><li>• Shorter time for sea water exposure &amp; immersion</li><li>• Continues to cure upon immersion</li></ul>
<ul style="list-style-type: none"><li>• Efficient application</li></ul>	<ul style="list-style-type: none"><li>• Better surface tolerance (suitable for damp or wet-blast clean substrates)</li><li>• Extended recoat window</li><li>• High film thickness in one coat</li></ul>
<ul style="list-style-type: none"><li>• Provides aesthetic options</li></ul>	<ul style="list-style-type: none"><li>• Available in a range of colours</li></ul>





## SIGMASHIELD 880 OUT-PERFORMS THE INDUSTRY ACCEPTED PRODUCTS IN SEVERAL KEY ASTM AND ISO PERFORMANCE TESTS

### TRUSTED AND TESTED

*SIGMASHIELD 880* is the latest addition to the extensive range of *SIGMASHIELD* epoxy coatings that have consistently proven performance in the harshest service environments.

*SIGMASHIELD 880* provides industry leading performance as confirmed by both internal and external testing laboratories.

### THIRD PARTY CERTIFICATIONS:

*SIGMASHIELD 880* - demonstrated compliance with international standards.

NORSOK M501 Revision 5 System 7

ISO 12944-6 C5M High  
ISO 12944-6 Im3 High  
(including hydrojetted substrate)



### FASTER DRY TIME



### FASTER IMMERSION TIME

## BENEFIT OF TWO COATS - IN A SINGLE COAT



# SIGMASHIELD 880



## A TRUE MULTI-PURPOSE COATING

### MARKETS & APPLICATIONS

Like other coatings in the *SIGMASHIELD* family of reinforced products, *SIGMASHIELD* 880 is engineered and formulated to resist corrosion in a wide range of industries and applications. As the product can be rapidly immersed and continues to cure after sea water immersion, it is particularly well-suited for structures exposed to tidal movement and surges, and for offshore splash zones.

#### INFRASTRUCTURE

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

#### MINING

- Conveyors
- Slurry lines
- Sluice gates

#### OFFSHORE

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

#### PETROCHEMICAL

- Tank externals
- Pipework
- Jetties
- Pilings
- Walkways

#### POWER

- Condensate boxes
- Renewable energy applications

#### ADDITIONAL

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

### SPLASH AND SPILL RESISTANCE

In addition, *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







## SIGMASHIELD 880

### APPLICATION

Preparation: ISO – Sa2 or Sa2 1/2, SSPC SP6, ST3 or Pt3, hydrojetted to VIS WJ2/3 L  
Application: one coat 200-1000 micron/8-40mil

### COLOUR

Available in a range of colours.



SURFACE PREPARATION TOLERANCE WITH **EXCELLENT CORROSION PERFORMANCE**

## PPG PROTECTIVE & MARINE COATINGS

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PPG Protective & Marine Coatings brings unrivalled levels of innovation, experience and expertise in coatings technology, supported through our expanding global supply and distributors' network in over 80 countries.

We have in-depth knowledge of the industry, our customers' day-to-day challenges and the environmental, health and safety standards in the marketplace. By working in close partnership with customers, our technical service representatives are able to offer an unsurpassed level of market knowledge. This enables us to respond quickly with efficient, economic solutions in all environments and industries.

The result – performance-enhancing coating systems that can be applied more easily, resist the elements more effectively, and deliver maximum performance with minimum downtime.

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