

PPG SIGMASHIELD® 880

Single-coat system for maintenance of marine vessels and platforms



Features and Benefits

- High solids epoxy coating - 85% volume solids
- Surface-tolerant
 - Application to blast cleaned, mechanically cleaned or hydro jetted steel
 - Can be applied over sound existing epoxy coating systems
 - Suitable for application onto a damp substrate
- Low temperature curing down to 23°F (-5°C)
- Will continue to cure under water (will tolerate immersion or ponding water exposure 30 minutes after application)
- Single-coat system ensures quick turnaround during maintenance



PPG SIGMASHIELD® 880

Single-coat system for maintenance of marine vessels and platforms



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

- Single-coat application
- Faster dry time
- Abrasion resistance

PPG 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.

Marine vessels and platforms have traditionally been coated with two- or three-coat applications.

Application of multiple-coat systems on marine vessels and platforms can frequently be affected by rain and adverse weather conditions. This can seriously affect the coating schedule leading to delays. Early exposure to rain during application can also lead to adhesion problems between subsequent coats.

PPG SIGMASHIELD 880 is the ideal coating for maintenance of marine vessels and platforms and can be applied in a single coat to flat plates reducing application costs and downtime.

If rain occurs after 30 minutes following application, PPG SIGMASHIELD 880 will continue to cure even if standing water is present.

PPG SIGMASHIELD 880 offers short dry-to-touch times and is also suitable to be applied onto substrates with temperatures of 23°F (-5°C) up to 120°F (48°C).

Application

PPG SIGMASHIELD 880 is primarily designed for spray application but can also be applied by brush or roller.

Third party certification

Standard	Classification	Surface prep	System
ISO 12944-6	C5M	NACE #2	12 mil (300 µm)
	Im3	NACE #2	12 mil (300 µm)
ISO 12944-6	C5M	NACE #5 WJ-2	16 mil (400 µm)
	Im3	NACE #5 WJ-2	16 mil (400 µm)

PPG SIGMASHIELD 880 has also been tested for NORSOK and other standards. Please contact your local PPG office for more details.

Other applications

PPG SIGMASHIELD 880 is used in a wide range of other applications, some of which are detailed below:

- Jetties, piers, pontoons and sluice gates
- Offshore – topsides, splash zone, immersion and decks
- Infrastructure – bridges
- Pipe work

For further information, please consult our technical data sheet.

System details

Surface preparation	System details
Bare steel – abrasive blast cleaned to NACE #2; mechanical preparation to SSPC-SP3 or Hydro jetting to WJ 2	One coat of PPG SIGMASHIELD 880 at 12 mil (300 µm) - 16 mil (400 µm)
Existing compatible coating – sweep blasted or thoroughly abraded	

For complex or difficult access areas, two coats are recommended.



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