

PROTECTIVE COATINGS

solutions that cover your needs



**SIGMA
COATINGS**

A PPG Brand

SIGMA *Cover*™

Recoatable epoxy systems
for maintenance and new construction

The SigmaCover Range

Tough coatings for tough environments

PPG Protective & Marine Coatings

Unrivalled performance and protection

PPG Protective & Marine Coatings (PMC) is a world leader in protective and marine coatings.

We create proven products that protect customers' assets in some of the world's most demanding markets including:

- *Civil building*
- *Infrastructure*
- *Offshore*
- *Petrochemical*
- *Power*
- *Rail*
- *Marine new-build*
- *Marine dry dock*
- *Marine sea stock*

Our coatings are unrivalled in performance and protection among asset owners, contractors, fabricators and applicators across the globe, helping customers meet the challenges they face today, and tomorrow.

Experience, innovation and integrity – that's what makes PMC the ideal coatings partner.

SigmaCover is a range of tough, durable epoxy coatings designed to deliver outstanding corrosion protection for both new construction and maintenance of major assets.

The benefits of SigmaCover result in easy-to-apply, cost-effective solutions within a wide range of applications across the protective coatings industry.

The following specific characteristics can be found in certain products within the SigmaCover range:

- **Unlimited recoatability**
- **Cold-cure characteristics**
- **VOC compliance**
- **Durability**
- **Easy application**
- **Cost effective**



SigmaCover applications

The SigmaCover range of protective coatings is widely used and trusted to meet the challenging environments found in the Civil building, Infrastructure, Offshore, Petrochemical and Power markets.

Infrastructure

- Bridges
- Port and harbor structures
- Waste and water facilities

Petrochemical

- Structural steel
- Tank externals

Power

- Power plants
- Wind turbines

Offshore

- Coastal structures
- Drilling rigs
- FPSO's
- Offshore platforms

Civil building

- Airports
- Shopping centers
- Sport complexes



The SigmaCover Range



Primers and sealers

SigmaCover 566

Epoxy acrylic tiecoat

- Good adhesion on coil-coated substrates such as PVC, plastisol PVDF, polyester and polyurethane
- High-impact resistance and flexibility
- Long pot life but short drying times
- Easy application by brush, roller and spray

SigmaCover 522

Micaceous iron oxide pigmented epoxy sealer

- Specifically designed as sealer for zinc-rich and thermal metal-sprayed surfaces
- Can be used as a primer and sealer or coating on steel, thermal metal-spray zinc and galvanizing
- Used for both atmospheric and immersion applications
- Good abrasion and impact resistance
- High-temperature resistance up to 200°C/392°F in dry atmospheric conditions

SigmaCover 280

Universal epoxy primer

- Excellent adhesion to non-ferrous substrates and galvanized steel
- Excellent universal primer for atmospheric or immersion applications
- Compatible with well-designed cathodic protection systems
- Long recoating intervals
- Suitable on wet blast substrates (damp or dry)
- The low-temperature cure version allows curing down to -10°C/14°F

SigmaCover 256

Zinc phosphate recoatable epoxy primer

- Suitable for atmospheric conditions
- Excellent corrosion resistance in industrial or coastal applications
- Cold-cure characteristics down to -10°C/14°F with unlimited recoatability
- Good adhesion to galvanized steel
- Easy application by brush, roller and spray

SigmaCover 211

Epoxy concrete primer and sealer

- Specifically designed for concrete substrates
- Good chemical resistance
- Good impact and abrasion resistance
- Easy to clean

SigmaCover	566	522	280	280LT	256	211
Corrosion resistance	N.A.	++	++++	++++	+++	N.A.
Temperature resistance	++	++++	++	++	++	++
Touch-dry	++++	++	+++	++++	++	+++++
Low-temperature cure	+	+	++	++++	++++	+
Recoatability	++++	+	+++	++	+++++	+
Film build (µm)	50-70	40-80	50-100	50-75	75-150	35
Volume solids (%)	43	60	57	57	63	51



Buildcoats

SigmaCover 805

High-solids epoxy

- Direct to metal, tar-free replacement for tar epoxy
- Good abrasion resistance
- Compatible with well-designed cathodic protection systems
- Outstanding seawater resistance
- Excellent corrosion resistance in industrial and coastal applications

SigmaCover 480

Chemical-resistant finish

- General purpose epoxy
- Resistance to impact and abrasion
- Extended recoating intervals
- Easy application by brush, roller and spray
- Easy to clean

SigmaCover 456

Recoatable epoxy coating

- Excellent durability, tough and with long-term flexibility
- Good adhesion to aged alkyds, chlorinated rubbers and epoxy coatings
- Cold-cure characteristics down to -10°C/14°F with unlimited recoatability
- Easy to apply by brush, roller and spray
- Special high-solids, low-VOC version available

SigmaCover 435

Micaceous iron oxide pigmented recoatable epoxy coating

- Excellent durability, tough with long-term flexibility
- Cold-cure characteristics down to -10°C/14°F with unlimited recoatability
- Good adhesion to aged alkyds, chlorinated rubber and epoxy coatings
- Temperature resistance up to 200°C/392°F

SigmaCover 410

Economy epoxy buildcoat for use in atmospheric land and marine conditions

- Excellent durability on steel or concrete
- Can be recoated with two-pack and conventional coatings, even after prolonged weathering conditions
- Easy application by airless spray
- Available in micaceous iron oxide and selected color range
- The low-temperature cure version allows curing down to -5°C/23°

SigmaCover 300

High build coal tar epoxy

- Outstanding water and crude oil resistance
- Cold-cure characteristics down to -5°C/23°F
- Good abrasion resistance
- Compatible with well-designed cathodic protection systems
- Excellent corrosion resistance in industrial and coastal applications

SigmaCover	805	480	456	456HS	435	410	410LT	300	300LT
Corrosion resistance	++++	N.A.	N.A.	N.A.	++	N.A.	N.A.	++++	++++
Touch-dry	+++	+++++	++++	+	++++	+++	++++	++	++++
Low-temperature cure	+	+	++++	++++	+++	+	+++	+++	++++
Recoatability	++	+++	+++++	++++	+++++	++++	++++	++	++
Film build (µm)	150	50	75-150	75-150	75-150	75-150	75-150	125-500	125-500
Volume solids (%)	82	50	65	73	63	80	80	71	71

Surface tolerant coatings

SigmaCover 1500

Solvent-free maintenance epoxy

- Primer and buildcoat
- Solvent-free
- Compatible with most aged coatings
- Excellent corrosion resistance in industrial or coastal applications

SigmaCover 1000

High-build, solvent-free epoxy

- Ultra high-build, up to 1000 microns in one coat
- Single coat protection
- Used for both atmospheric or immersion applications
- Can be immersed after only 4 hours ambient cure
- Applied by heavy duty, single-feed airless equipment

SigmaCover 640

Two-pack, ultra-high solids epoxy

- Self-priming, surface-tolerant epoxy in aluminum and colors
- Convenient 1:1 mixing ratio by volume
- Low-temperature cure version available
- Excellent surface-tolerant characteristics
- Resistance to industrial, coastal and offshore conditions

SigmaCover 630

High-solids epoxy

- Primer and buildcoat, compatible with most aged coatings
- Good impact and abrasion resistance
- Resistance to splash and spillage of a wide variety of chemicals
- Excellent corrosion resistance in industrial or coastal applications
- Low-temperature and tropical-grade cure available

SigmaCover 240

High-solids, low-temperature cure epoxy

- Outstanding water and crude oil resistance
- Cold-cure characteristics down to -20°C/-4°F
- Good abrasion resistance
- Topcoating up to 6 months

SigmaCover	1500	1000	640	640LT	630	630LT	240
Corrosion resistance	++++	++++	+++	+++	++	++	++
Surface tolerance	++++	++++	++++	++++	+++	+++	+++
Touch-dry	+	+	++	++++	++	++++	+++
Low-temperature cure	+	+	++	+++	++	+++	++++
Recoatibility	++	++	+++	+++	+	++	+++
Film build (µm)	125-150	1000	100-200	100-200	60-100	60-150	100-300
Volume solids (%)	99	100	87	88	83	85	87

The SigmaCover Range

SigmaCover 1500

- Solvent-free epoxy, compatible with most aged coatings

SigmaCover 1000

- Solvent-free, high-build, one-coat maintenance epoxy

SigmaCover 805

- High-solids epoxy direct applicable to steel

SigmaCover 640 (*Amerlock 400*)

- High-solids multi-functional maintenance epoxy in colors. Low-temperature cure option

SigmaCover 630

- High-solids surface-tolerant epoxy coating. Low-temperature cure option

SigmaCover 566

- Epoxy acrylic tiecoat with good adhesion on coil-coated substrates such as PVC and polyester

SigmaCover 522

- Micaceous iron oxide pigmented epoxy sealer, specifically for zinc-rich and metal-sprayed surfaces

SigmaCover 480

- Chemical, impact and abrasion-resistant epoxy finish

SigmaCover 456

- Recoatable epoxy coating curing at temperatures down to -10°C/14°F

SigmaCover 435

- Low-temperature micaceous iron oxide pigmented recoatable epoxy coating. Heat resistance up to 200°C/392°F

SigmaCover 410

- Economy buildcoat. Low-temperature cure option

SigmaCover 300

- High-build coal tar epoxy highly resistant to water and crude oil. Cold-cure option down to -5°C/23°F

SigmaCover 280

- Universal epoxy primer for atmospheric and immersion conditions. Cold-cure option

SigmaCover 256

- Zinc phosphate recoatable epoxy primer. Cold-cure down to -10°C/14°F

SigmaCover 240 (*Amercoat 240*)

- Recoatable surface-tolerant epoxy. Cold cure option down to -20°C/-4°F

SigmaCover 211

- Epoxy primer and sealer specifically designed for concrete substrates

PPG Protective & Marine Coatings

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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