

# SIGMACover™ 1000

- Can be immersed in (sea) water after 4 hours curing at 20°C, **increasing production speed.**
- Provides **maximum application window flexibility** to meet the conditions in tough environments.
- SigmaCover 1000 is a **one-coat system directly to steel** without the use of a primer providing **simplicity** of the application.
- SigmaCover 1000 is a high build solvent free epoxy coating, **improving working safety.**

**SOLVENT FREE  
EPOXY COATING**

**ONE-COAT SYSTEM  
DIRECTLY TO STEEL**

**FULLY COMPATIBLE WITH  
CATHODIC PROTECTION**

**CAN BE IMMERSSED IN WATER  
AFTER 4 HOURS OF CURING**

**CONTINUES TO CURE UNDERWATER**

# SIGMACover™ 1000

There are application areas onshore and offshore that require extra attention because of the tough exposure conditions. These can be areas that are exposed to mechanical impact and abrasion that might damage the coating system. Often these areas can also be exposed to soluble salts from the marine environment that will even accelerate the rate of corrosion of damaged areas.

Typical areas of tough exposure conditions:

- Legs of drilling platforms
- Piles of bridges
- Sheet piling

The areas are normally not only exposed to immersion in either water or seawater, but also to UV and dry/wet cycles such as splash zone areas of platforms.

For these areas often multiple coat systems are applied that consist of a primer, buildcoat and for aesthetic reasons a polyurethane finish. Nowadays time is becoming more and more a critical factor and there is a tendency to less coats and to reduce the amount of VOC as much as possible. SigmaCover 1000 is a new product that meets these latest requirements. **SigmaCover 1000** is a **solvent free epoxy coating** that can be applied in high dft's from 500 to 1000 microns in **one coat directly to steel** without the use of a primer. The product is **fully compatible** with **cathodic protection** and has an excellent corrosion resistance.

The **excellent corrosion resistance** is confirmed by long term testing in sea water with and without cathodic protection and shows no film defects.

**Please check our website for the latest version of the product datasheets: [www.sigmacoatings.com/protective](http://www.sigmacoatings.com/protective)**



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Test	Standard	Typical results
Adhesion	ISO 4624	> 10 MPa
Corrosion Resistance	ISO 7253	No film defects after 1 year sea water immersion
Cathodic Protection	ASTM G8	Pass
Abrasion Resistance	ASTM D4060	100 ± 5 mg
Impact Resistance	ISO 6272	Typically 6-8 Joules
Flexibility	ISO 1519	7-8 %
Elongation	ISO 527	9 %
Tensile Strength	ASTM D638	12 N/mm <sup>2</sup> (12 MPa)

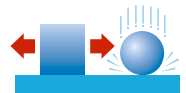
Note: all tests have been performed after full cure time according product datasheet. This test data is indicative only.

SigmaCover 1000 can also be used for atmospheric exposure. In these cases it is usually be expected to look attractive or at least functional. Therefore SigmaCover 1000 is available in a standard set of colours and when required it can easily be top coated with a durable finish from our SigmaDur range to enhance the aesthetic performance.

SigmaCover 1000 can also used in areas where short intervals exist before being immersed, which is especially the case in tidal zones. SigmaCover 1000 can be **immersed in water after 4 hours** curing and will **continue to cure underwater** till the full cure stage is reached. This makes SigmaCover 1000 an excellent choice for tidal zones.

SigmaCover 1000 is also suitable for conditions that are more challenging such as:

- Damp surfaces
- Hydroblasted surfaces
- Heavy corroded steel (after cleaning according to product datasheet)
- Curing down to 5°C



**Good resistance to abrasion and impact**



**Fast curing**



**Smooth glossy surface**



**Year round application**



**Solvent-free technology**



Early water resistance test

Immersion in Tap water after

- 4 hours of curing
- 3 hours of curing
- 2 hours of curing
- 1 hour of curing