

# Yacht Pro

Products for professional use





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# Primers & Fillers

- Below the waterline
- Above the waterline
- Above and below the waterline



# Hempel's Gel Primer 45580

Two-component primer for gelcoats

**Material**  
Glass fibre



## Description

High build epoxy primer for use as a bond between glass fibre reinforced polyester and antifouling. Also for prevention of osmotic blistering in glass fibre reinforced polyester.

## Recommended use

Suitable on glass fibre hulls below the waterline. Especially designed for professional applications where short recoating intervals are needed.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	45
Theoretical Spreading Rate	4.5 m <sup>2</sup> /L - 225 µm WFT
Minimum Overcoating Time (self)	10°C - 6 hours; 20°C - 3 hours; 30°C - 2.5 hours
Minimum Overcoating Time (Antifouling)	10°C - When tacky; 20°C - When tacky (30-60mins); 30°C - When tacky
Mixed VOC (g/L)	475

## Shades and Can sizes



Stone Grey 5 | 20L      Mid Grey 5 | 20L

## Application details

Mixing ratio	Base 45589 + Curing agent 98580 4 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 30 mins
Film thickness (micron)	100 (dry) / 200 (wet)

- Excellent adhesion to gelcoat
- Fast curing
- Antifouling can be directly applied

# Hempel's Pro Tiecoat 49200

Anticorrosive two-component antifouling tiecoat

**Materials**  
Steel / Aluminium / GRP



## Description

High performance anticorrosive epoxy tiecoat for below the waterline.

## Recommended use

For immersion service used as a tiecoat between epoxy and one-component coatings.

It can also replace one anticorrosive primer coat for the underwater coating system and at the same time act as tiecoat for antifouling or it may also be used as a sealer over old antifouling.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	57
Theoretical Spreading Rate	5.7 m <sup>2</sup> /L - 175 µm WFT
Minimum Overcoating Time (self)	N/A
Minimum Overcoating Time (Antifouling)	10°C - 10 hours; 20°C - 5 hours; 30°C - 4 hours
Mixed VOC (g/L)	395

## Shades and Can sizes



Yellowish Grey  
2.5 | 5 | 20L

## Application details

Mixing ratio	Base 49209 + Curing agent 98191 7 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2.5 hours; 20°C - 2.5 hours; 30°C - 1 hour
Film thickness (micron)	100 (dry) / 175 (wet)

- Excellent adhesion to epoxy primers
- Perfect substrate for antifouling
- Seals in old antifouling

# Hempadur 15570

Two-component epoxy hold primer

**Material**  
Steel



## Description

Suitable for use as a holding primer below the waterline with extended overcoating intervals. Available in various shades including reddish grey (12430) shade that contains Micaceous Iron Oxide.

## Recommended use

As a holding (blast) primer in new building or maintenance scenarios where long overcoating intervals with other epoxy systems may be required. MIO shade is particularly suited for application in humid conditions or on damp steel.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	54
Theoretical Spreading Rate	5.4 m <sup>2</sup> /L – 200 µm WFT
Minimum Overcoating Time (self)	10°C - 16 hours; 20°C - 8 hours; 30°C - 6 hours
Minimum Overcoating Time (other)	10°C - 20 hours; 20°C - 6 hours; 30°C - 5 hours
Mixed VOC (g/L)	415

## Shades and Can sizes



Reddish Grey 20L    Red 20L    Grey 20L

## Application details

Mixing ratio	Base 15579 + Curing agent 95570 3 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 1 hour
Film thickness (micron)	100 (dry) / 200 (wet)

- Extended maximum overcoating interval
- Can be applied to moist steel
- Excellent substrate for epoxy systems

# Hempel's Underwater Primer 26031

One-component underwater primer

**Materials**

Glass fibre / Wood / Steel



## Description

Fast-drying underwater primer containing aluminium flakes. For use as a sealer onto old antifouling or as a tiecoat over an epoxy primed surface before antifouling.

## Recommended use

Suitable on glass fibre, wood and steel. For use on all areas below the waterline including keels.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	39
Theoretical Spreading Rate	7.8 m <sup>2</sup> /L – 125 µm WFT
Minimum Overcoating Time (self)	10°C - 4.5 hours; 20°C - 2.5 hours; 30°C - 2 hours
Minimum Overcoating Time (other)	10°C - 4.5 hours; 20°C - 2.5 hours; 30°C - 2 hours
Mixed VOC (g/L)	476

## Shades and Can sizes



Aluminium Grey  
2.5 | 5 | 20L

## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08230
Cleaning of tools	Hempel's Thinner 08230
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 125 (wet)

- Excellent adhesion
- Can be used to seal unknown antifouling
- Seals leaching of copper from old antifouling

# Hempadur 15553

Two-component epoxy stainless steel primer

Materials  
Stainless Steel / Aluminium



## Description

Flexible impact-resistant primer for stainless steel and aluminium.

## Recommended use

As a primer where surface roughening is not achievable. For use only above the water on stainless steel and aluminium parts.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	55
Theoretical Spreading Rate	11 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self)	10°C - 12 hours; 20°C - 6 hours; 30°C - 4.5 hours
Minimum Overcoating Time (other)	10°C - 12 hours; 20°C - 6 hours; 30°C - 4.5 hours
Mixed VOC (g/L)	388

## Shades and Can sizes



## Application details

Mixing ratio	Base 15557 + Curing agent 98021 3 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 1 hour
Film thickness (micron)	50 (dry) / 100 (wet)

# Hempadur Mastic 45880

Two-component epoxy build primer

Materials  
Steel / Aluminium



## Description

High solids, high build primer for use under the polyurethane topcoats.

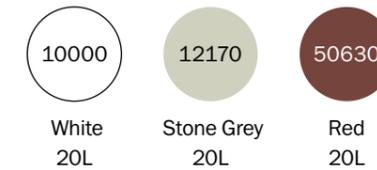
## Recommended use

Above water as a low VOC, high film build primer with extended re-coating times for heavy duty polyurethane topcoats.

## Product overview

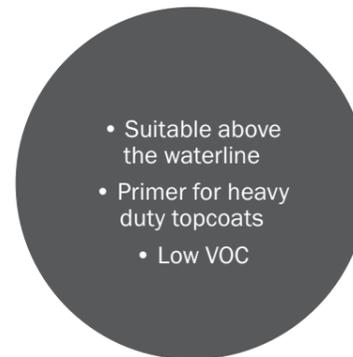
Finish	Semi-Gloss
Volume Solids (% - ±2 )	80
Theoretical Spreading Rate	6.4 m <sup>2</sup> /L - 150 µm WFT
Minimum Overcoating Time (self)	N/A
Minimum Overcoating Time (other)	10°C - 30 hours; 20°C - 10 hours; 30°C - 7.5 hours
Mixed VOC (g/L)	216

## Shades and Can sizes



## Application details

Mixing ratio	Base 45889 + Curing Agent 95880 3 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 1 hour; 30°C - 30 mins
Film thickness (micron)	125 (dry) / 150 (wet)



# Hempel's Uni-Primer 13140

One-component direct-to-metal primer

Material  
Steel



## Description

Fast-drying primer with rust-inhibiting pigments that can be applied direct to roughened steel.

## Recommended use

Above the waterline as a versatile primer on steel and other metal surfaces in a mild to medium corrosive environment. Ideal undercoat for Hempalin and Hempatex topcoats.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	42
Theoretical Spreading Rate	8.4 m <sup>2</sup> /L - 125 µm WFT
Minimum Overcoating Time (self)	10°C - 12 hours; 20°C - 6 hours; 30°C - 4.5 hours
Minimum Overcoating Time (other)	10°C - 4 hours; 20°C - 2 hours; 30°C - 1.5 hours
Mixed VOC (g/L)	518

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 125 (wet)

- Suitable above the waterline
- Reduces need for multiple maintenance primers
- Contains rust-inhibiting pigments

# Hempel's Premium Primer 17880

Two-component universal epoxy primer

Materials  
Steel / Aluminium / GRP / Stainless Steel



## Description

Highly versatile universal primer for use above and below the waterline. Excellent barrier coating and resistant to abrasion.

## Recommended use

Is intended as a direct-to-substrate primer for keel-to-rail use on all size yachts made of GRP, FRP, steel, or aluminium. The product is suitable to be overcoated with tiecoats, fillers or other coatings as specified.

## Product overview

Finish	Semi-Flat
Volume Solids (% - ±2 )	72
Theoretical Spreading Rate	5.76 m <sup>2</sup> /L - 160 µm WFT
Minimum Overcoating Time (self)	10°C - 6 hours; 20°C - 3 hours; 30°C - 2.5 hours
Minimum Overcoating Time (other)	10°C - 6 hours; 20°C - 3 hours; 30°C - 2.5 hours
Mixed VOC (g/L)	276

## Shades and Can sizes



## Application details

Mixing ratio	Base 17889 + Curing agent 95870 4 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610
Pot life (Airless spray, Brush)	10°C - 2 hours; 20°C - 1 hour; 30°C - 30 mins
Film thickness (micron)	125 (dry) / 160 (wet)

- Excellent anticorrosive
- Very good mechanical properties
- Short drying time
- Curing down to -10°C
- Keel-to-rail primer

# Hempel's Light Primer 45550

Two-component multi-purpose epoxy primer

**Materials**  
Steel / Aluminium / GRP / Wood / Stainless Steel / Plywood



## Description

High performance epoxy primer and undercoat for use both above and below the waterline. Superb corrosion, impact and water resistance.

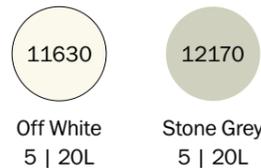
## Recommended use

As a primer below and above the waterline on boats made of aluminium, glass fibre reinforced polyester, wood, plywood and steel. Also for prevention and repair of osmotic blistering in the glass fibre reinforced polyester, and for protection of keels and rudders.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	52
Theoretical Spreading Rate	5.2 m <sup>2</sup> /L - 200 µm WFT
Minimum Overcoating Time (self)	10°C - 16 hours; 20°C - 8 hours; 30°C - 6 hours
Minimum Overcoating Time (other - tiecoat)	10°C - 4 hours; 20°C - 2 hours; 30°C - 1 hour
Mixed VOC (g/L)	433

## Shades and Can sizes



## Application details

Mixing ratio	Base 45559 + Curing agent 95360 2 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 30 mins
Film thickness (micron)	100 (dry) / 200 (wet)

- Excellent adhesion to all yacht substrates
- Excellent water barrier
- Can be applied at low temperatures

# Hempel's Profiller 35370

Two-component epoxy fairing filler

**Materials**  
Steel / Glass fibre



## Description

Lightweight smooth epoxy filler with strong adhesion and water resistance. Easy to sand when fully cured.

## Recommended use

As a filler and fairing compound above and below the waterline. Especially suitable for profiling large areas and detailed fairing where structural strength is important. It can be used on most primed rigid substrates and can be applied up to 10-12mm for a uniform smooth film build.

## Product overview

Finish	Semi-Gloss
Volume Solids (% - ±2 )	100
Theoretical Spreading Rate	N/A
Minimum Overcoating Time (self @ 1mm)	10°C - 48 hours; 20°C - 24 hours; 30°C - 12 hours
Minimum Overcoating Time (other @ 1mm)	10°C - 48 hours; 20°C - 24 hours; 30°C - 12 hours
Mixed VOC (g/L)	2
Density (Kg/L)	0.7

## Shades and Can sizes



## Application details

Mixing ratio	Base 35379 + Curing agent 95720 1 : 1 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Tool Cleaner 99610
Pot life (Airless spray)	10°C - 1.5 hours; 20°C - 45 mins; 30°C - 30 mins
Film thickness (micron)	Up to 25mm

- Low density / lightweight
- Smooth
- Easy to sand with minimal shrinkage

# Antifouling

- Self-polishing
- Hard



# Hempel's Mille NCT 71880

Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Steel



## Description

High performance, self-polishing antifouling. Hempel's patented binder technology ensures outstanding fouling protection and colour retention all season. Hempel's Mille NCT 71880 is compatible with virtually all other antifouling systems.

## Recommended use

Suitable for boats made of glass fibre, wood, plywood and steel. Do not use on aluminium or other light-alloy metals. Risk of corrosion in case of direct contact.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	50
Theoretical Spreading Rate	10 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	423

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Superior mechanical strength
- Premium crack resistance
- Excellent colour retention all season long

# Hempel's Mille NCT 7188W

Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Aluminium / Steel



## Description

High performance, self-polishing antifouling. Hempel's patented binder technology ensures outstanding fouling protection and colour retention all season.

## Recommended use

As an antifouling for boats of glass fibre, wood, plywood, steel and aluminium.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	53
Theoretical Spreading Rate	10.6 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	406

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Superior mechanical strength
- Premium crack resistance
- Clean, white colour
- Can be applied on aluminium with suitable priming

# Hempel's Classic 71220

Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Steel



## Description

Efficient polishing (erodible) antifouling providing good protection all season.

## Recommended use

As an antifouling for boats of glass fibre, wood, plywood and steel. Do not use on aluminium or other light-alloy metals. Risk of corrosion in case of direct contact.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	50
Theoretical Spreading Rate	10 m <sup>2</sup> /L – 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	424

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Good mechanical strength
- Improved crack resistance
- Good colour retention all season long
  - For cruising speeds

# Hempel's Alu Prop NCT Pro 74830

Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Aluminium / Steel



## Description

High performance, self-polishing antifouling. Hempel's patented binder technology ensures outstanding fouling protection and colour retention all season.

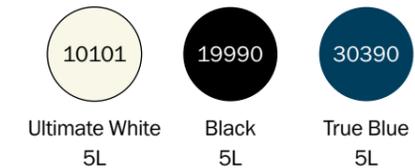
## Recommended use

As an antifouling for boats of glass fibre, wood, plywood, steel and aluminium. For all below waterline areas including stern gear & propellers.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	53
Theoretical Spreading Rate	10.6 m <sup>2</sup> /L – 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	406

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Especially suited for aluminium boats
- Bright, clean colours
- Excellent mechanical strength
- Superior crack resistance

# Hempel's Tiger Xtra 71000

## Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Steel



### Description

High performance, conventional, erodible antifouling providing excellent protection all season.

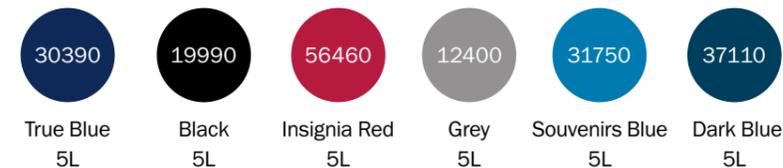
### Recommended use

As an antifouling for glass fibre, wood, plywood and steel. Do not use on aluminium or other light alloy metals. Risk of corrosion in case of contact. For power and sailing boats.

### Product overview

Finish	Flat
Volume Solids (% - ±2 )	51
Theoretical Spreading Rate	10.2 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	422

### Shades and Can sizes



### Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- High mechanical strength
- Excellent crack resistance
- Suitable for dry-stack or continuous immersion
- Great colour retention
- Just 1 coat can last the season

# Hempel's Tiger Xtra White 7103A

## Self-polishing antifouling

**Materials**  
Glass fibre / Wood / Plywood / Steel / Aluminium



### Description

High performance, self-polishing antifouling providing excellent protection all season.

### Recommended use

As an antifouling for glass fibre, wood, plywood, steel and aluminium. For power and sailing boats.

### Product overview

Finish	Flat
Volume Solids (% - ±2 )	35
Theoretical Spreading Rate	7 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	405

### Shades and Can sizes



### Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- High mechanical strength
- Excellent crack resistance
- Suitable for dry-stack or continuous immersion
- Great colour retention
- Just 1 coat can last the season

# Hempel's Hard Racing TecCel 76880

**Materials**  
Glass fibre / Wood / Plywood /  
Steel



Hard matrix antifouling

## Description

High performance, hard antifouling providing outstanding protection all season. Includes TecCel technology which ensures reduced friction and increased speed. It changes to its final colour after approximately 1 week of immersion in water.

## Recommended use

As an antifouling for boats of glass fibre, wood, plywood and steel. Do not use on aluminium or other light-alloy metals. Risk of corrosion in case of direct contact. For powerboats and regatta yachts.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	49
Theoretical Spreading Rate	9.8 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	437

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Super smooth racing finish
- Reduced friction & increased speed
- Excellent crack resistance
- Superior colour retention all season long

# Hempel's Hard Racing White 76300

**Materials**  
Glass fibre / Wood / Plywood /  
Aluminium / Steel



Hard matrix antifouling

## Description

High performance, hard antifouling providing excellent protection all season.

## Recommended use

As an antifouling for boats of glass fibre, wood, plywood, steel and aluminium. For powerboats and regatta yachts.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	54
Theoretical Spreading Rate	10.8 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self @ 1mm)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	394

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	50 (dry) / 100 (wet)

- Can be applied on aluminium with suitable priming
- Super smooth racing finish
- High mechanical strength
- Excellent crack resistance
- Great colour retention all season long

# Fouling Control Systems

- Fouling Defence
- Fouling Release



# Combining the knowledge on different technologies, Hempel has created **Fouling defence** and **Fouling release** solutions for you to choose from:

## Fouling defence

Our unique Actiguard technology gives you the best of two worlds: silicone-hydrogel and diffusion control of biocides, all in a single fouling defence coat. You can expect 6 per cent fuel savings compared to best-in-class antifoulings over the entire service interval, regardless of trading patterns and sailing speed, and a clean hull over an idle period of up to 120 days. The result is exceptional fouling control performance and lower CO<sub>2</sub> emissions over docking intervals of up to 60 months.

## Fouling release

Our fouling release technology is based on biocide-free silicone and hydrogel, giving you a smooth hull surface that makes it difficult for fouling organisms to attach. The result is less drag, fuel savings averaging 5 per cent and lower CO<sub>2</sub> emissions, increasing the efficiency of your fleet and offering superb return on investment. You can use our fouling release technology on any type of yacht, even those currently using another type of fouling control coating.



## Fouling control systems overview

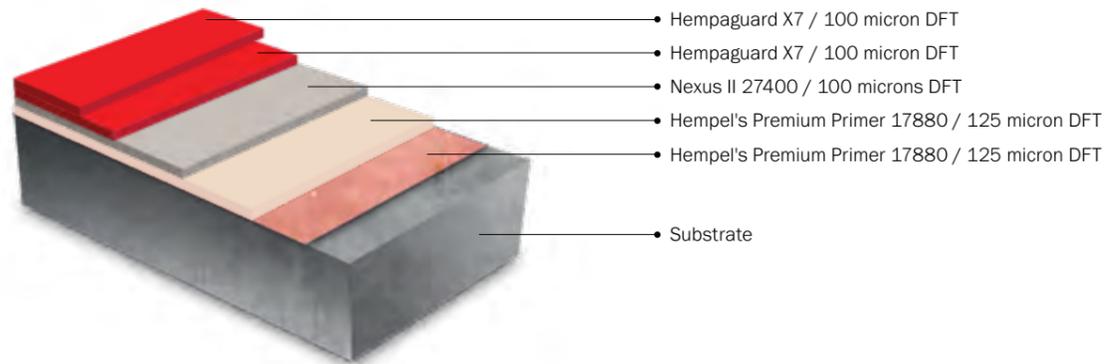
	Fouling defence	Fouling release
	Hempaguard X7	Hempasil X3
Biocide-free	✗	✓
Instant effect on water contact	✓	✓
High activity level	✓	✓
Low activity level	✓	✗
Up to 120 days idle time	✓	✗
Possible to switch from tropical to colder waters	✓	✓
Easy overcoating	✓	✓
Application in warm environment	✓	✓
Full return on paint investment	✓	✗
No fouling cleaning needed	✓	✗
Products suitable for touch ups, repairs and supporting small vessels	 Silic Pro*	 Silic One
Suitable for propellers	✓	✓

\* Only available in certain countries

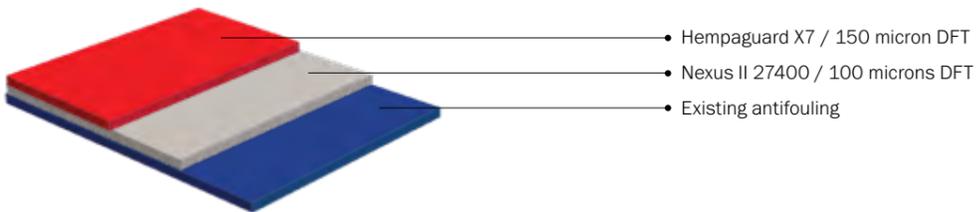
# Hempel's Fouling Defence & Release systems

## Hempaguard® X7

Full system for new and bare hull – 5 year scheme

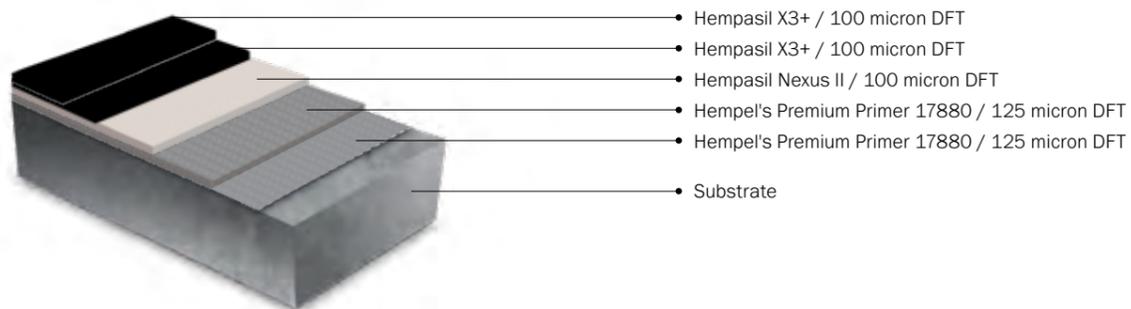


Converting from the existing antifouling system – 3 year scheme

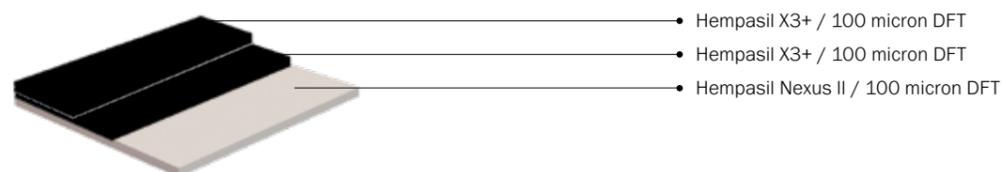


## Hempasil X3+

Full system for new and bare hull – 3 year scheme

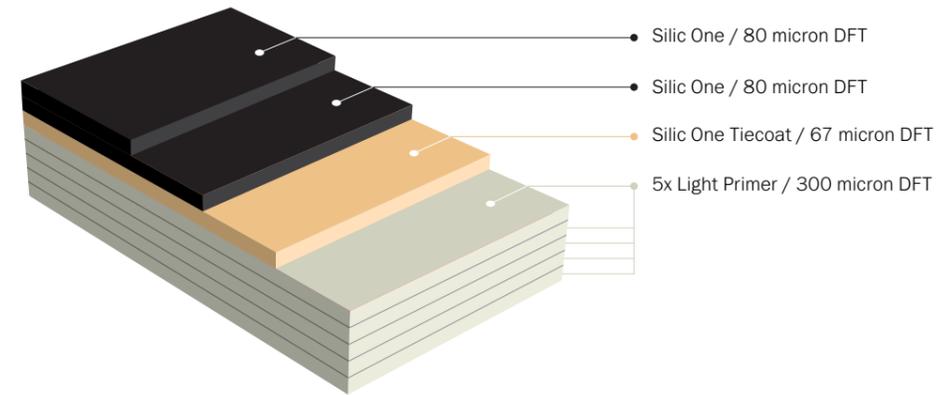


Converting from the existing antifouling system – 3 year scheme

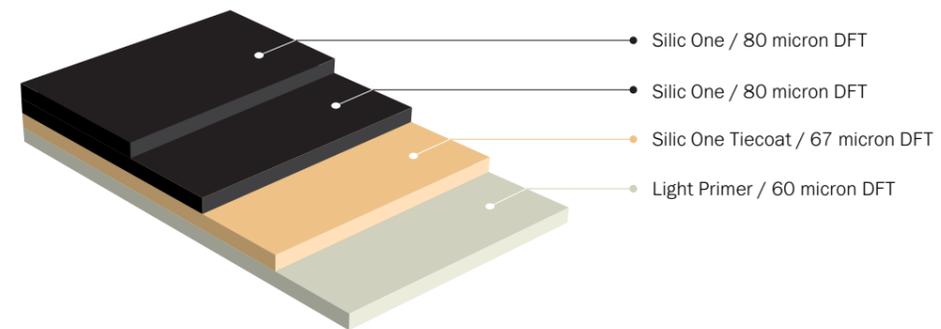


## Hempel's Silic One 77450

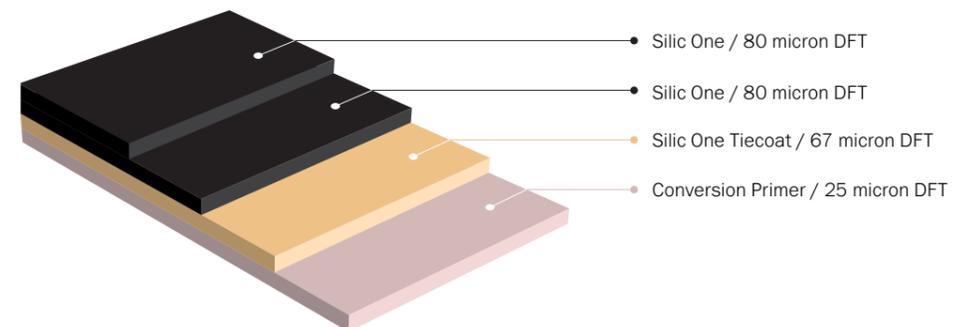
New boat without epoxy



New boat or bare boat with epoxy



Application on top of old antifouling in good condition



# Hempaguard X7 89900

**Materials**  
Steel / Aluminium / GRP /  
Stainless Steel



Two-component fouling defence coating

## Description

Advanced fouling defence coating, with high solids content, based on ActiGuard® technology. ActiGuard® combines the effect of advanced hydrogel silicone and an efficient fouling preventing biocides to boost the antifouling barrier and prolong the fouling-free period.

Possesses a high fuel saving potential and is also suitable for vessels operating with long service intervals (up to 60 months) and/or very long idle periods (up to 120 days).

## Recommended use

As a fouling defence finish on all boat types, with no limitation on service speeds, including slow/ultraslow yachts. The product is also suitable for propellers.

Does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Antifouling Systems on Ships as adopted by IMO October 2001

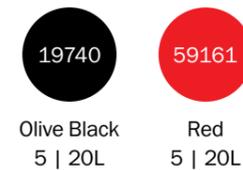
(IMO document AFS/CONF/26).

- Significant fuel-savings
- 5 year performance
- Up to 120 idle days

## Product overview

Finish	Glossy
Volume Solids (% - ±2 )	70
Theoretical Spreading Rate	7.0 m <sup>2</sup> /L - 140 µm WFT
Minimum Overcoating Time (self)	10°C - 21 hours; 20°C - 8 hours; 30°C - 6 hours
Minimum Time To Immersion	10°C - 24 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	260

## Shades and Can sizes



Olive Black 5 | 20L      Red 5 | 20L

## Application details

Mixing ratio	Base 89909 + Crosslinker 98980 17.8 : 2.2 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless Spray)	10°C - 1 hour; 20°C - 1 hour; 30°C - 30 mins
Film thickness (micron)	100 (dry) / 140 (wet)

# Hempasil X3+ 87500

**Materials**  
Steel / Aluminium / GRP /  
Stainless Steel



Two-component fouling release coating

## Description

Biocide-free, high solids finish, based on silicone hydrogel.

Provides a smooth, low energy repellent surface with unique fouling release and self-cleaning properties and allows high fuel saving potential compared to traditional antifoulings.

## Recommended use

As a fouling release finish on all boat types with service speeds above 8 knots. The product can also be used for propellers.

Hempasil X3+ does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Antifouling Systems on Ships as adopted by IMO, October 2001

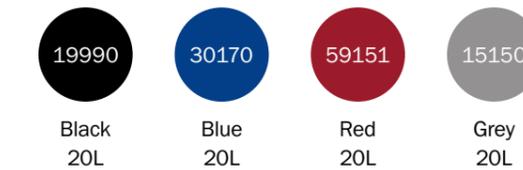
(IMO document AFS/CONF/26).

- Biocide-free
- Fuel-saving
- 3 year performance

## Product overview

Finish	Glossy
Volume Solids (% - ±2 )	71
Theoretical Spreading Rate	7.1 m <sup>2</sup> /L - 140 µm WFT
Minimum Overcoating Time (self)	10°C - 15 hours; 20°C - 15 hours; 30°C - 15 hours
Minimum Time To Immersion	10°C - 24 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	260

## Shades and Can sizes



Black 20L      Blue 20L      Red 20L      Grey 20L

## Application details

Mixing ratio	Base 87509 + Crosslinker 98951 17.8 : 2.2 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless Spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 1 hour
Film thickness (micron)	100 (dry) / 140 (wet)

# Hempel's Silic One 77450

One-component fouling release coating

**Materials**  
Steel / Aluminium / GRP / Wood / Stainless Steel



## Description

Biocide-free, high solid, fouling release coating. Based on silicone, a hydrogel micro layer provides a smooth, low friction surface which prevents organisms attaching to the hull and propellers. Service life of Hempel's Silic One on the hull is 2 years.

## Recommended use

As a fouling release finish on all boat types. For use below the waterline, on propellers and on running gear.

## Product overview

Finish	Glossy
Volume Solids (% - ±2 )	80
Theoretical Spreading Rate	10 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self)	10°C - 16 hours; 20°C - 16 hours; 30°C - 8 hours
Minimum Time To Immersion	10°C - 36 hours; 20°C - 24 hours; 30°C - 24 hours
Mixed VOC (g/L)	119

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08080
Pot life	1 hour after opening the can
Film thickness (micron)	80 (dry) / 100 (wet)

# Hempel's Silic One Tiecoat 27450

One-component tiecoat

**Materials**  
Steel / Aluminium / GRP / Wood / Stainless Steel



## Description

High solid, silicone-based tiecoat for Hempel's Silic One. Secures adhesion between Hempel's Light Primer or Hempel's Conversion Primer and Hempel's Silic One.

## Recommended use

For use below the waterline between Hempel's Light Primer 45550 or Hempel's Conversion Primer 45441 and Hempel's Silic One 77450. Also used to touch-up and repair damaged areas.

## Product overview

Finish	Semi-Gloss
Volume Solids (% - ±2 )	67
Theoretical Spreading Rate	6.7 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self)	10°C - 16 hours; 20°C - 8 hours; 30°C - 4 hours
Minimum Overcoating Time (other)	10°C - 16 hours; 20°C - 8 hours; 30°C - 4 hours
Mixed VOC (g/L)	233

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08080
Pot life	1 hour after opening the can
Film thickness (micron)	70 (dry) / 100 (wet)



# Hempel's Conversion Primer 45441

**Materials**  
Steel / Aluminium / GRP / Stainless Steel



Two-component epoxy primer

## Description

Two-component epoxy to enable easy conversion from antifouling to Hempel's Silic One Fouling Release System.

## Recommended use

For use as a sealer on antifouling. Secures adhesion between antifouling and Hempel's Silic One Tiecoat 27450. For use on all substrates excluding wood. Can be applied on previously painted antifouling in good condition.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	36
Theoretical Spreading Rate	3.6 m <sup>2</sup> /L - 275 µm WFT
Minimum Overcoating Time (self)	10°C - 4 hours; 20°C - 2 hours; 30°C - 1 hour
Minimum Overcoating Time (other)	10°C - 4 hours; 20°C - 2 hours; 30°C - 1 hour
Mixed VOC (g/L)	542

## Shades and Can sizes



Light red  
2.5L

## Application details

Mixing ratio	Base 45445 + Curing agent 95441 3 : 1 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08450
Pot life	10°C - 8 hours; 20°C - 8 hours; 30°C - 4 hours
Film thickness (micron)	100 (dry) / 275 (wet)

# Hempasil Nexus II 27400

**Materials**  
Steel / Aluminium / GRP / Stainless Steel



Three-component tiecoat

## Description

Three-component silicone-based tiecoat with anticorrosive properties.

## Recommended use

For use below the waterline as a tiecoat between epoxy primer and finish coat for the Hempaguard®/Hempasil Systems.

Can also be used to easily convert aged antifouling to Hempaguard or Hempasil systems providing antifouling is in good condition.

## Product overview

Finish	Semi-Gloss
Volume Solids (% - ±2 )	56
Theoretical Spreading Rate	5.6 m <sup>2</sup> /L - 175 µm WFT
Minimum Overcoating Time (self)	N/A
Minimum Overcoating Time (X-Tend 27500)	10°C - 5 hours; 20°C - 4 hours; 30°C - 3 hours
Minimum Overcoating Time (X3+/X7)	10°C - 12 hours; 20°C - 6 hours; 30°C - 4 hours
Mixed VOC (g/L)	400

## Shades and Can sizes



Light Grey  
20L

## Application details

Mixing ratio	Base 27409 + Curing agent 98160 + Additive 99710 13.9 : 3.6 : 2.5 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless Spray)	10°C - 1 hour; 20°C - 1 hour; 30°C - 30 mins
Film thickness (micron)	100 (dry) / 175 (wet)

\* Can be combined with Hempel's Nexus X-Tend 27500



# Hempasil Nexus X-tend 27500

**Materials**  
Steel / Aluminium / GRP /  
Stainless Steel



One-component tiecoat

## Description

High solids, silicone-based humidity curing tiecoat for Hempaguard®/Hempasil finishes.

## Recommended use

For use below the waterline as a tiecoat, in combination with Nexus II 27400, between epoxy primer and finish coat for the Hempaguard®/Hempasil Systems.

Can also be used as a low temperature tiecoat, in combination with Hempasil Nexus II 27400, for applications below 10°C.

Suitable for touch-up and repair of damaged areas of existing silicone finish coats.

## Product overview

Finish	Semi-Gloss
Volume Solids (% - ±2 )	65
Theoretical Spreading Rate	5.4 m²/L - 175 µm WFT
Minimum Overcoating Time (self)	N/A
Minimum Overcoating Time (X3+/X7)	10°C - 21 hours; 20°C - 8 hours; 30°C - 6 hours
Mixed VOC (g/L)	254

## Shades and Can sizes



23410

Yellow  
5 | 20L

## Application details

Mixing ratio	N/A
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless spray)	10°C - 1 hour; 20°C - 1 hour; 30°C - 30 mins
Film thickness (micron)	100 (dry) / 175 (wet)

- For applications lower than 10°C
- A 'recovery coat' if rains occurs prior to finish coat application
- Extended overcoating intervals\*

\* compared to Hempel's Nexus II 27400



# Topcoats



# Hempalin Enamel 52140

One-component glossy enamel

**Materials**  
Steel / Wood



## Description

Glossy alkyd enamel which forms a flexible weather resistant coating. Resistant to salt water, oils, fuel and other lubricants.

## Recommended use

Above the waterline as a general purpose finishing coat in alkyd systems. For use on exterior and interior steel and woodwork in mildly to moderately corrosive environment.

## Product overview

Finish	High-Gloss
Volume Solids (% - ±2 )	46
Theoretical Spreading Rate	15.3 m <sup>2</sup> /L – 75 µm WFT
Minimum Overcoating Time (self)	10°C - 16 hours; 20°C - 8 hours; 30°C - 6 hours
Mixed VOC (g/L)	429

## Shades and Can sizes



## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08230
Cleaning of tools	Hempel's Thinner 08230
Pot life (Airless spray)	N/A
Film thickness (micron)	30 (dry) / 75 (wet)

- Flexible & resistant
- Interior & exterior
- Ideal for engine rooms

# Hempathane HS 55810

Two-component high-gloss polyurethane

**Materials**  
Steel / Aluminium / GRP / Stainless Steel



## Description

Two-component polyurethane topcoat with very good gloss and colour retention.

## Recommended use

Above the water as a high-gloss decorative finishing coat in severely corrosive atmospheric environments.

## Product overview

Finish	High-Gloss
Volume Solids (% - ±2 )	64
Theoretical Spreading Rate	16 m <sup>2</sup> /L – 60 µm WFT
Minimum Overcoating Time (self)	10°C - 24 hours; 20°C - 16 hours; 30°C - 8 hours
Mixed VOC (g/L)	369

## Shades and Can sizes



## Application details

Mixing ratio	Base 55819 + Curing agent 95373 4 : 1 by volume
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless Spray)	10°C - 8 hours; 20°C - 4 hours; 30°C - 2 hours
Film thickness (micron)	40 (dry) / 60 (wet)

- Durable high-gloss finish
- High volume solids
  - Good colour retention

# Hempathane HS Topcoat 55610

**Materials**  
Steel / Aluminium / GRP / Stainless Steel



Two-component gloss topcoat

## Description

Glossy polyurethane coating with good gloss and colour retention.

## Recommended use

Above the water as a glossy decorative finishing coat in severely corrosive atmospheric environments.

## Product overview

Finish	Glossy
Volume Solids (% - ±2 )	67
Theoretical Spreading Rate	8.3 m <sup>2</sup> /L - 120 µm WFT
Minimum Overcoating Time (self)	10°C - 12 hours; 20°C - 6 hours; 30°C - 3 hours
Mixed VOC (g/L)	342

## Shades and Can sizes



Multitint  
20L

## Application details

Mixing ratio	Base 55619 + Curing agent 97050 7 : 1 by volume
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless spray)	10°C - 4 hours; 20°C - 2 hours; 30°C - 1 hour
Film thickness (micron)	80 (dry) / 120 (wet)

- Durable gloss finish
- Good colour retention
- Good gloss retention

# Hempatex Deck Coating Non-Skid 56250

**Materials**  
Steel / Glass fibre / Wood



One-component fast-drying acrylic deck paint

## Description

Quick-drying, acrylic, semi-gloss topcoat containing fine granules for an anti-slip finish. Durable with good resistance to weathering and abrasion.

## Recommended use

For use on glass fibre, wood and steel. For interior and exterior use above the waterline.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	48
Theoretical Spreading Rate	9.2 m <sup>2</sup> /L - 100 µm WFT
Minimum Overcoating Time (self)	10°C - 7 hours; 20°C - 4 hours; 30°C - 3 hours
Mixed VOC (g/L)	471

## Shades and Can sizes



Green  
5L

Red  
5L

## Application details

Mixing ratio	N/A
Thinner	Hempel's Thinner 08080
Cleaning of tools	Hempel's Thinner 08080
Pot life (Airless spray)	N/A
Film thickness (micron)	N/A

- Fast-drying
- Abrasion-resistant
- Skid-proof

# Speciality products



# Hempadur 35560

Material  
Steel



Two-component epoxy tank primer

## Description

Solvent-free, epoxy primer for use in fresh water (potable) tanks.

## Recommended use

As a lining in potable water tanks and pipelines.

## Certificates/Approvals

Approved by WRAS for potable water up to 35°C.

Certified by NSF International to NSF/ANSI standard 61 - Drinking Water System Components - Health Effects.

## Product overview

Finish	Glossy
Volume Solids (% - ±2 )	100
Theoretical Spreading Rate	5 m <sup>2</sup> /L - 200 µm WFT
Minimum Overcoating Time (self)	10°C - 40 hours; 20°C - 16 hours; 30°C - 8 hours
Minimum Overcoating Time (other)	N/A
Mixed VOC (g/L)	0

## Shades and Can sizes



## Application details

Mixing ratio	Base 35569 + Curing agent 98560 3.4 : 1 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 3 hours; 20°C - 1.5 hours; 30°C - 45 mins
Film thickness (micron)	200 (dry) / 200 (wet)

- Perfect for potable water tanks
- Solvent-free
- Benzyl alcohol free

# Hempel's High Protect II 35780

Material  
Glass fibre



Two-component epoxy osmosis repair coating

## Description

Solvent-free, high-build epoxy for osmosis protection and treatment. Easy to apply with good tolerance to environmental conditions. Forms a hard, tough, water-resistant coating.

## Recommended use

For use as a primer for the prevention and repair of osmotic blistering in the glass fibre.

## Product overview

Finish	High-Gloss
Volume Solids (% - ±2 )	100
Theoretical Spreading Rate	11 m <sup>2</sup> /L - 150 µm WFT
Minimum Overcoating Time (self)	10°C - 20 hours; 20°C - 8 hours; 30°C - 4 hours
Minimum Overcoating Time (other)	10°C - 20 hours; 20°C - 8 hours; 30°C - 4 hours
Mixed VOC (g/L)	34

## Shades and Can sizes



## Application details

Mixing ratio	Base 35789 + Curing agent 95078 1.5 : 1 by volume
Thinner	Do not dilute
Cleaning of tools	Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 2 hours; 20°C - 2 hours; 30°C - 1 hour
Film thickness (micron)	150 (dry) / 150 (wet)

- Suitable above & below the waterline
- For the repair of osmotic blistering in glass fibre hulls
- Solvent-free

# Hempel's Pro Primer 17600

Two-component epoxy propeller primer

## Materials

Bronze / Stainless Steel / Anodized Aluminium / Steel / Aluminium



## Description

High performance epoxy primer for all propeller types, including bronze, stainless steel and aluminium, as well as external running gear.

## Recommended use

Is intended as a primer direct to suitably prepared propellers, stern gear and running gear.

## Product overview

Finish	Flat
Volume Solids (% - ±2 )	68
Theoretical Spreading Rate	6.8 m <sup>2</sup> /L - 150 µm WFT
Minimum Overcoating Time (self)	10°C - 25 hours; 20°C - 16 hours; 30°C - 8 hours
Minimum Overcoating Time (other)	10°C - 25 hours; 20°C - 16 hours; 30°C - 8 hours
Mixed VOC (g/L)	317

## Shades and Can sizes

11150

Light Grey  
2.5 | 5L

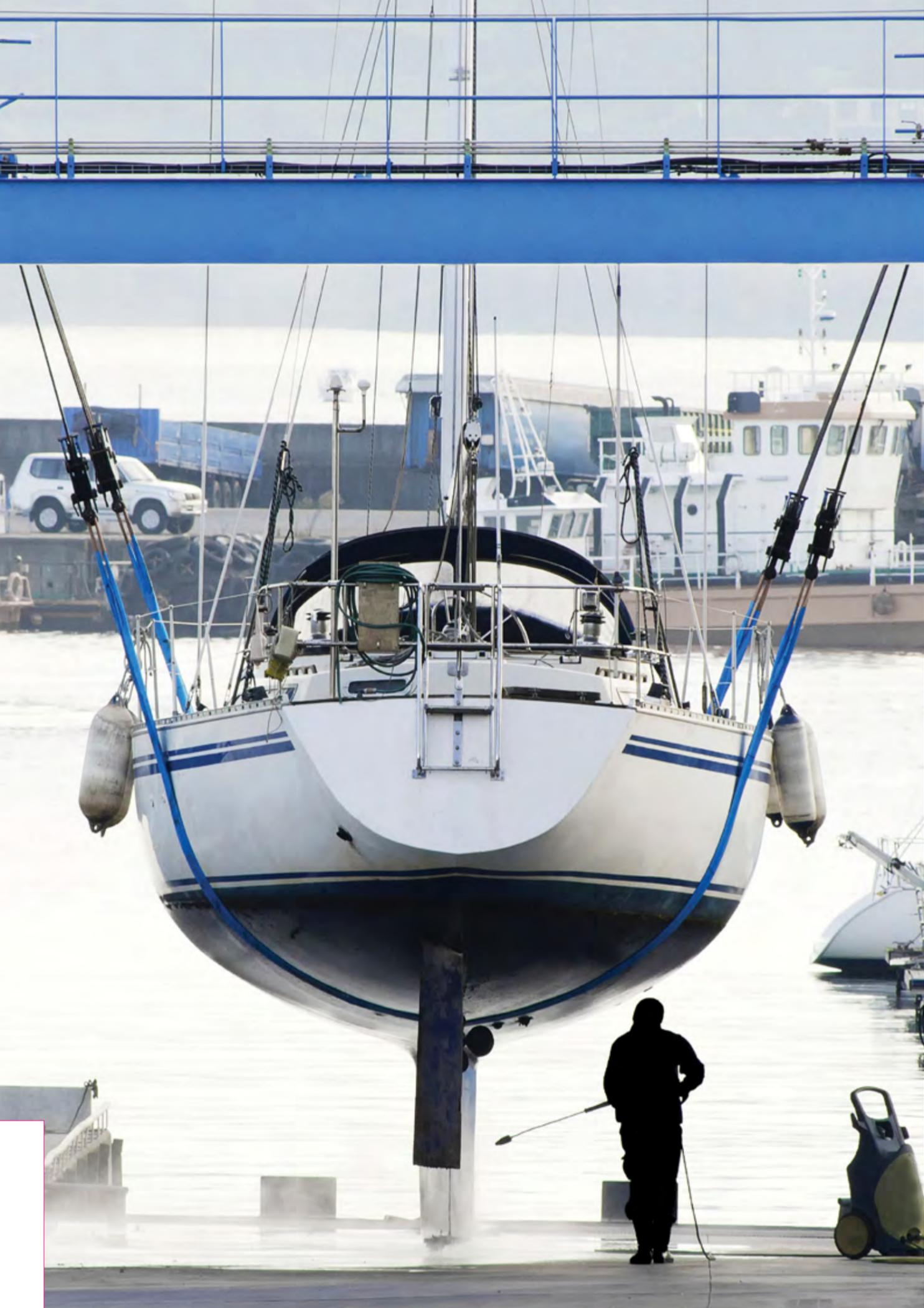
## Application details

Mixing ratio	Base 17609 + Curing agent 97371 7.33 : 1 by volume
Thinner	Hempel's Thinner 08450
Cleaning of tools	Hempel's Tool Cleaner 99610 Hempel's Thinner 08450
Pot life (Airless spray)	10°C - 4 hours; 20°C - 3 hours; 30°C - 1 hour
Film thickness (micron)	100 (dry) / 150 (wet)

- Excellent adhesion to propellers & running gear
- Ideal substrate for silicone systems
- Impact resistant



# Thinners & Cleaners



# Thinners

Product name & Quality	Uses	Can size (L)
Hempel's Thinner 08080	For antifoulings, one-component primers, one-component topcoats, two-component topcoats	5 & 20
Hempel's Thinner 08230	For Underwater Primer 26031	5 & 20
Hempel's Thinner 08450	For two-component epoxy coatings	5 & 20
Hempel's Thinner 08710	For two-component polyurethane topcoats	5 & 20

# Cleaners

Product name & Quality	Uses	Can size (L)
Hempel's Tool Cleaner 99610	For cleaning all tools	5 & 20
Hempel's Degreaser 99611	For removing grease and oils from metal surfaces	1
Hempel's Pre-Clean 67602	Universal surface pre-cleaner/surface re-activator	5

# Health & Safety

# Health & Safety

Your safety is important to us, this section is intended to make it easier for you to find the information you need to work safely with Hempel products. It is important that before starting work you:

- Ensure the area is safe to work in, with appropriate ventilation for the task ahead.
- Consider others working around you are also safe from exposure.
- Confirm that personal protective equipment (PPE) is used according to manufacturer’s recommendations.
- Read the label, Safety Data Sheet (SDS) and other advice specific to the products you are working with.
- Read the Safe Use Mixture Information (SUMI) attached to SDS.
- Comply with local laws and regulations.

Hempel hopes that the Health and Safety section will increase awareness and inspire others to learn more about how to avoid risks to health and safety.

## Safety Data Sheets

The main hazard and precautionary information is provided on labels alongside pictograms related to the hazard associated with the product. This should be your first reference in understanding how to handle the product safely. The Safety data sheet provides you with more detailed information. By using the information provided in the SDS and the label, you can make sure that it is safe to use the product where you work.

The Safety Data Sheet provides detailed information about a hazardous product, including: Its identity and its ingredients; Its physical, health and environmental hazards; Workplace exposure standards; Safe handling and storage procedures; First aid procedures; Transport information and other useful information. It is divided into 16 sections. Annexed to SDS is the Safe Use Mixture Information. One SUMI represents one specific application setup and provides detailed information like ventilation, duration of use and required PPE in a short easy readable one-pager.

Safety data sheets are available on [hempel.com](http://hempel.com)

Pictograms	Hazard class
	<b>Explosive</b> Self-reactive substances and mixtures Organic peroxides
	<b>Flammable</b> gases, aerosols, liquids or solids Self-reactive substances and mixtures. Pyrophoric liquids and solids. Self-heating substances. Substances, which in contact with water, emit flammable gases. Organic peroxides
	<b>Oxidising</b> substances
	<b>Gas under pressure</b> Compressed gasses. Liquefied gasses Refrigerated gasses. Dissolved gasses
	<b>Corrosive</b> Corrosive to metals Skin corrosion Severe eye damage
	<b>Toxic</b> (acute health hazard) Acute toxicity - via inhalation, skin contact or ingestion. These substances/mixtures can cause death, injury or seriously harm health within 72 hours of a single exposure
	<b>Harmful</b> Irritant to eyes and skin Skin sensitization Respiratory tract irritation Narcotic effects
	<b>Chronic health hazard</b> Products, which are Carcinogenic (can cause cancer), Mutagenic (can permanently change DNA), Reproductive toxic (can cause impaired fertility/birth defects), Respiratory sensitizers (can cause e.g. asthma)
	<b>Hazardous to environment</b> Environmental effects - both acute and chronic

## Personal Protective Equipment

Personal Protective Equipment is used to protect workers in a specific work situation against health and safety risks where other controls can't provide total protection. PPE may also be required according to national legislation. Make sure that you check the manufacturer's recommendation to ensure that it is appropriate for the product you are working with. Damaged, dirty or used PPE may not be fully effective and you should maintain it according to recommendations from the supplier. If in any doubt, replace old equipment before starting work.

## General good practice

### Handling and Storage

Read the Product Data Sheet (PDS) and the Safety Data Sheet carefully as they contain information related to how to protect yourself and what to do in case of an accident. Access to both PDS and SDS shall be readily available on [hempel.com](http://hempel.com)

- Refer to safety/product data sheets for product information and content.
- Always read the label thoroughly and contact us if you're not sure how to use the products.
- Wear appropriate personal protective equipment (PPE).
- Provide adequate ventilation for the product used. If necessary, use a respirator. Don't breathe vapour/spray.
- Open cans with care.
- Immediately clean up spills.
- Do not eat or drink in the vicinity of stored or applied paint.
- Do not swallow. If swallowed, immediately seek medical advice and show the container/label.
- Some products may cause irritation, always seek medical advice if you're concerned.
- Where possible, removed waste antifouling paint, e.g. waste paint in cans and old paint scraped off of hulls, should be collected and disposed of safely.
- Contact your local authority for information on waste disposal.

Storage
<ul style="list-style-type: none"> <li>• Do not store the paint in direct sunlight.</li> <li>• A paint locker must be well ventilated and the light installed must be explosion proof. The locker must be in compliance with local legislation.</li> <li>• When painting, protect the cans from dust and dirt.</li> <li>• Keep the lids closed during storage.</li> <li>• Secure all cans from falling down in bad weather.</li> <li>• Do not leave thinners in open cans during storage.</li> <li>• Using thinner will often lower the flash point and create a higher potential risk of explosion.</li> <li>• Extra ventilation is required when using thinners as cleaning agent.</li> <li>• Do not smoke or use open fire when handling paints.</li> <li>• Spillages must be cleaned up immediately.</li> <li>• All waste paint must be stored in special containers</li> <li>• Personal protection such as gloves/goggles and often respirators must be used when handling paints.</li> </ul>

**Paint application**

Brush & Roller

- The correct PPE shall be used during application and cleaning.
- Painting should be undertaken outdoors.
- During Indoor application adequate ventilation must be ensured, keep all windows and doors open where no mechanical ventilation/extraction is available.

Spray equipment

- Good maintenance - repairs before break down means improved safety.
- Only tested hoses, spray guns and fittings designed for maximum output pressure for each individual pump must be used.
- Always ground [earth] the pump to the subject to prevent explosion/fire due to sparks created by static electricity.
- Safety nozzle tips must be used on airless equipment.
- Do not point an airless gun at anybody.
- Be careful when using a powerful agitator/mixer to avoid paint/thinner splashing anybody.
- Full personal protection equipment is necessary when checking Wet Film Thickness (WFT) during spray application.

General good practice: around the work-site

- Keep the work-site clean and tidy.
- Smoking is allowed in designated areas only.
- Maintain safety and explosion proof lights.
- Ensure proper ventilation is maintained.
- Ensure that all work permits are available and valid.

**Personal Protection**

Ensure you wear suitable protective clothing, including gloves and glasses. Read labels carefully and follow all application and health & safety advice. Open cans with care. Don't eat or drink in the vicinity of stored or applied paint.

	What are the hazards	The equipment to use		What are the hazards	The equipment to use
 Eye	Chemical splash, dust, paint particles and droplets, projectiles, vapour.	Safety spectacles, goggles, face shields, visors.	 Hearing	Damage to inner ear from loud or constant noise levels.	Ear defenders, ear muffs, ear plugs.
 Breathing	Breathing dust, vapour, fumes, aerosols, oxygen-deficient atmospheres, paint particles.	<b>Short term filtering mask</b> against dust while sanding. <b>Half facemask</b> for sanding and painting, can be disposable or with replaceable filter cartridges. <b>Full air feed facemask</b> for spray painting.	 Body	Chemical or paint splash, spray from spray guns, impact or penetration, dust, excessive wear or entanglement of own clothing.	Overalls, coveralls.
 Hands	Abrasion, cuts and punctures, impact, chemicals, solvents, liquid paints, skin infection.	Leather gloves, latex gloves, armlets.	 Feet	Wet, slipping, cuts and punctures, falling objects, chemical and paint splash, abrasion.	Steel toe protection and anti-slip soles. May be a prerequisite on some sites.
 Hands	Dust, dirt, oil and grease, paint particles.	<b>Barrier cream:</b> short term protection. <b>Cleaning cream:</b> designed to remove contaminants and cause least skin damage. <b>Maintenance cream:</b> to help restore the skin's natural protective layers.	 Head	Impact from falling objects, head bumping, hair entanglement.	A range of helmets and bump caps.

# Yacht Pro

Products for professional use  
2022/2023

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centres and stock points are established in every region.

Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colourful. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

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