



SIGMAFAST™

Speed of cure for steel fabrication
Product line serving Europe, Middle East and Africa



**PPG Protective &
Marine Coatings**

Bringing innovation to the surface.™



SIGMAFAST™

Speed of cure for steel fabrication

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

Our global capabilities and respected protective coatings brands enable us to provide our customers with exceptional products, performance and service. Our proven and trusted products protect a wide range of assets for the most demanding markets and environments, including:

- Civil Infrastructure
- Marine
- Mining
- Offshore
- Petrochemical
- Power
- Rail

PPG has the scale and resources to deliver outstanding support with well-established operations in over 60 countries. Continuous development ensures that we provide optimum solutions for asset owners, contractors, fabricators and applicators across the globe, helping our customers to meet the challenges they face today and tomorrow.

Experience, innovation and integrity – that is what makes PPG the ideal coatings partner.

The *SIGMAFAST* range

For industries where time is money, the *SIGMAFAST* range of protective coatings is proven to help improve productivity and reduce application times through its speed of cure.

Delivering swift and reliable results every time, *SIGMAFAST* is used to protect steel assets in a variety of civil and industrial applications faced with tight construction deadlines.

The range consists of fast-drying two-component and one-component primers, buildcoats and finishes.

SIGMAFAST coatings are cost-effective and easy to apply, cure at low temperatures, offer extended overcoating times for greater flexibility and provide excellent corrosion resistance.

SIGMAFAST applications

The *SIGMAFAST* range is widely used and trusted to withstand the challenging environments encountered in a variety of industries:

Infrastructure

- Bridges
- Port & harbour structures
- Waste water facilities

Civil building

- Airports
- Shopping malls
- Stadiums

Petrochemical

- Land storage tank externals
- Pipework
- Structural steel

Power

- Power plants
- Wind turbines

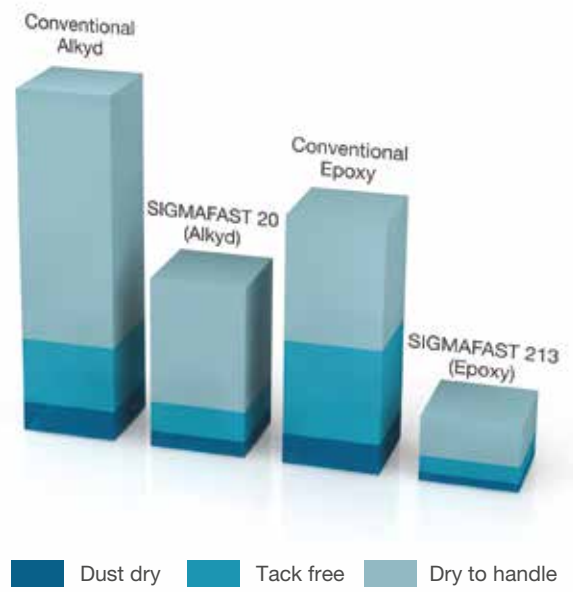
OEM

- Industrial equipment manufacturing





Speed of cure



SIGMAFAST two-component



*In-shop Performance: Production speed/Minimum curing temperature/ Recoating intervals/Volume solids

SIGMAFAST one-component



*In-shop Performance: Production speed/Recoating intervals/Volume solids

The SIGMAFAST range

Two-component products

SIGMAFAST 302

Unique silicate zinc epoxy primer – minimum overcoating time is 25 minutes at 20°C

SIGMAFAST 278

High solids zinc phosphate epoxy primer and buildcoat – minimum overcoating time is 2 hours at 20°C

SIGMAFAST 213

Vinyl epoxy primer and buildcoat – overcoating time is 45 minutes at 20°C

SIGMAFAST 370

Epoxy primer and buildcoat – minimum overcoating time is 2 hours at 20°C

SIGMAFAST 205 LT / SIGMAFAST 205

Relatively high solids zinc phosphate epoxy primers and buildcoats, available in a full range of colours – minimum overcoating time are 3 hours and 4 hours at 20°C

SIGMAFAST 210 / SIGMAFAST 220

Polyurethane primer, buildcoat and finish, available in a full range of colours – minimum overcoating time is 4 hours at 20°C

One-component products

SIGMAFAST 40

Semi-gloss alkyd finish – touch dry in 45 minutes at 20°C

SIGMAFAST 20

High-build zinc phosphate alkyd primer – minimum overcoating time is 4 hours at 20°C



Two-component products

Primer

SIGMAFAST 302

Unique silicate zinc epoxy primer

SIGMAFAST 302 can be overcoated after as little as 25 minutes at 20°C and up to 12 months after application. It is trusted and widely used in all industrial projects where both durability and speed of application are required.

- Minimum overcoating time is 25 minutes at 20°C
- Maximum overcoating interval of 12 months
- Low-temperature curing down to -5°C
- No popping occurs when topcoat is applied
- Excellent corrosion resistance in atmospheric conditions

Primer and buildcoat

SIGMAFAST 278

High solids zinc phosphate epoxy primer and buildcoat

This product combines the following advantages:

- Innovative phenalkamine technology
- High solids: 80% of volume solids
- Low-VOC content: 230g/L and 153g/kg maximum, complying with the latest VOC legislation, such as Directive 2004/42/CE, Solvent Emission Directive 1999/13/CE, Directive 2010/75/UE or even new targets in current European VOC discussions
- Fast drying: Touch dry after 1 hour and dry to overcoat after 2 hours at 20°C based on phenalkamines technology
- One version combining direct to metal use for C1 to C4 environments and also buildcoat use for C5 environments following ISO 12944 standard
- Broad application thickness range: 75 µm to 250 µm
- Large temperature application range with only one curing agent: -5°C to 40°C
- No induction time



SIGMAFAST 213

Vinyl epoxy primer and buildcoat

SIGMAFAST 213 cures quickly at low temperatures. It can be overcoated after 45 minutes at 20°C and up to 12 months after application. It is the ideal all in one primer and build coat for steel structures that require corrosion protection and mechanical resistance during handling and construction.

- Minimum overcoating time is 45 minutes at 20°C
- Maximum overcoating interval of 12 months
- Low-temperature curing down to -5°C
- Good corrosion resistance in atmospheric conditions

SIGMAFAST 370

Epoxy primer and buildcoat

SIGMAFAST 370 is a general-purpose, one-coat epoxy primer and buildcoat that cures quickly at low temperatures and can be overcoated in as little as 2 hours. It is widely used to speed up the application process during the manufacture of heavy components such as wind towers, steel sections and equipment.

- One-coat solution is quick and easy to apply direct to metal
- Minimum overcoating time is 2 hours at 20°C
- Maximum overcoating time is 6 months
- Low-temperature curing down to -5°C
- Excellent corrosion resistance in atmospheric conditions

SIGMAFAST 205 LT / SIGMAFAST 205

Relatively high solids zinc phosphate epoxy primers and buildcoats

SIGMAFAST 205 LT and *205* are general-purpose epoxy primers and buildcoats for atmospheric conditions.

- One-coat solution is quick and easy to apply directly to metal
- Minimum overcoating times are 3h and 4h at 20°C
- Maximum overcoating times intervals are 6 months
- Available in a full range of colours
- Good corrosion resistance in atmospheric conditions

One-component products

Primer, buildcoat and finish

SIGMAFAST 210 / SIGMAFAST 220

Polyurethane primer, buildcoat and finish

In the construction of stadiums, many steel constructors choose *SIGMAFAST 210* or *SIGMAFAST 220**. This compact one-coat primer, buildcoat and finish solution is cost effective, time efficient and can be applied directly to steel. It is dry to handle in 3 hours at 20°C and is available in many colours.

- One-coat solution is quick and easy to apply directly to metal
- Minimum overcoating is 4 hours at 20°C
- Indefinite overcoating time
- Low-temperature curing down to -5°C
- Available in a full range of colours
- Excellent colour and gloss retention
- Good corrosion resistance in atmospheric conditions

**SIGMAFAST 210* is semi-gloss version, *SIGMAFAST 220* is gloss version.

SIGMAFAST 40

Semi-gloss alkyd finish

SIGMAFAST 40 is a high-build semi-gloss coating, based on modified alkyd resin. An excellent multipurpose coating, it is the perfect topcoat over shop primers and is ideal for the repair and touch-up of aged coatings.

- Touch dry in 45 minutes at 20°C
- Minimum overcoating time is 4 hours at 20°C
- Extended overcoating interval
- Available in a full range of colours
- Good colour and gloss retention

SIGMAFAST 20

High-build zinc phosphate alkyd primer

SIGMAFAST 20 is a red oxide, high-build, fast-drying primer. It is an outstanding, one-pack primer for the maintenance of aged coating systems on equipment and steel constructions.

- Touch dry in 30 minutes at 20°C
- Minimum overcoating time is 4 hours at 20°C
- Extended overcoating interval
- Compatible for surface treatment to St2
- Available in a range of colours
- Good corrosion resistance in atmospheric conditions
- Tough and durable





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