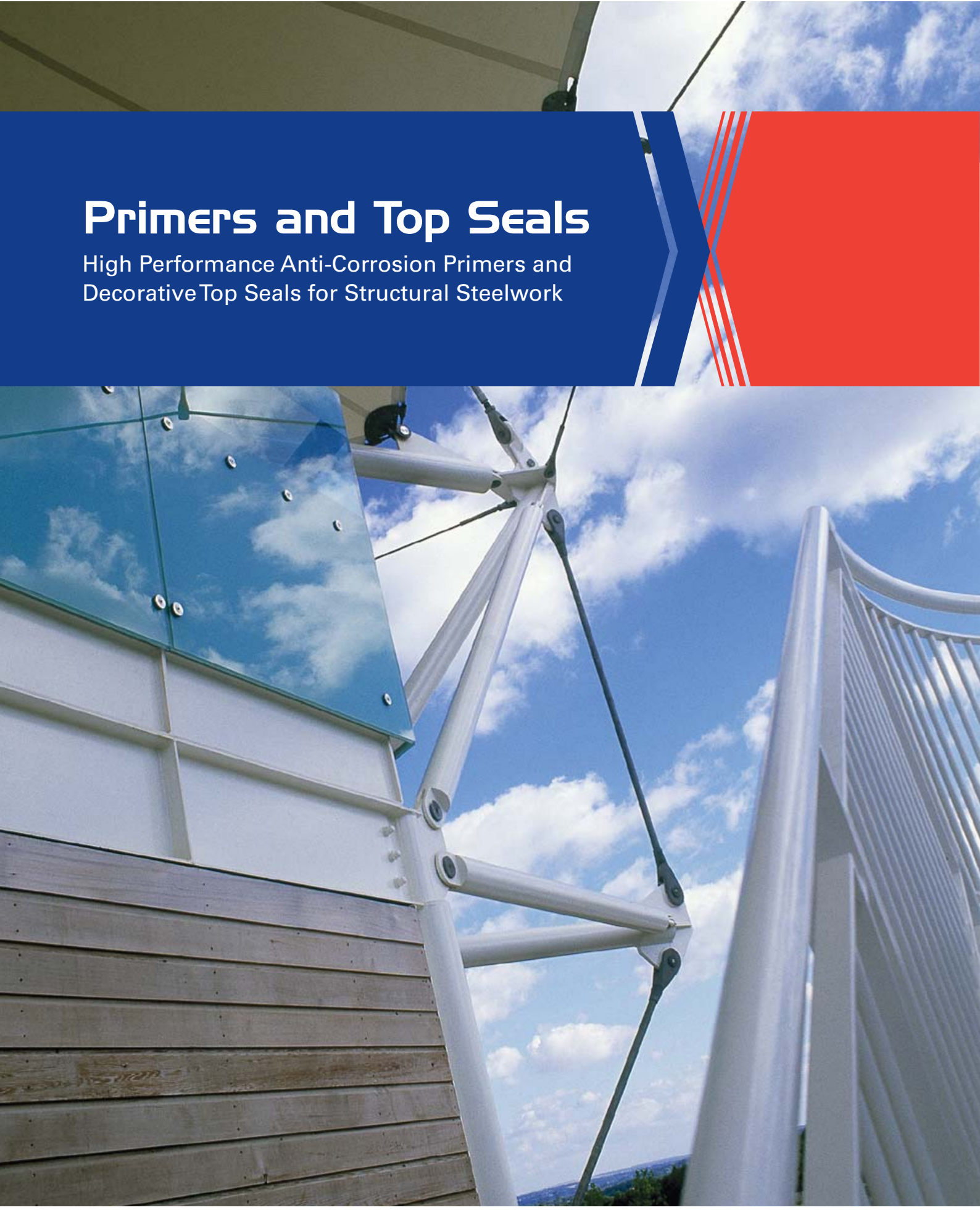


Primers and Top Seals

High Performance Anti-Corrosion Primers and
Decorative Top Seals for Structural Steelwork



Introducing Nullifire



At the Forefront of Smart Passive Fire Protection

We are specialists, with one focus that has not and will not change – to protect people and buildings from fire. For over 40 years, Nullifire has been a market leader in intumescent and fire stopping solutions.

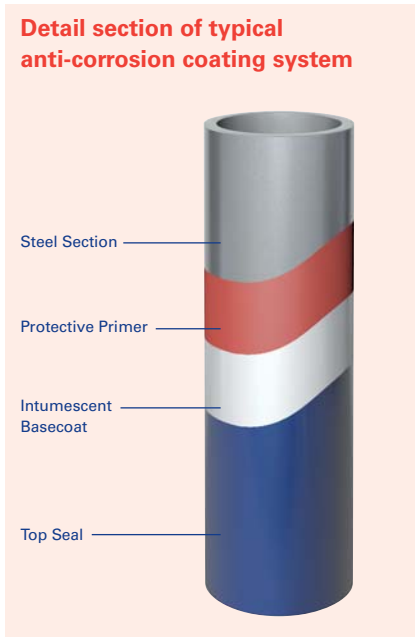
Passive fire protection is highly complex but crucially important, especially as buildings become more sophisticated. At Nullifire, we understand the need to have confidence in fire protection; so we provide systems that perform when they are called upon.

Nullifire has always innovated, pioneering water-based coating technology and most recently the SC900 series, a fast-track intumescent coating that can save up to 60% on application and drying time.

With a unique team of technical experts, everything is focused on providing what our customers need at every stage of their project- smart protection.

Nullifire is a brand of tremco illbruck, a European manufacturer and service provider of high performance building materials.

The Complete System from Nullifire



Combine Nullifire primers and top seals with Nullifire intumescent basecoats to provide a complete system for fire protection and then decoration of structural steel. All Nullifire products are tested for compatibility to minimise the risk of problems occurring on site.

Primer

Inhibits corrosion of the underlying structural steel. Primers also provide a key for the intumescent basecoat. If using SC901 or SC902, primers may not be required (contact our Technical Services Department helpline for more information prior to use).

Intumescent Basecoat

The intumescent coating is applied to the correct thickness to provide the specified level of fire protection. Nullifire leads the way in intumescent basecoat technology.

Top Seal

Smooth hardwearing finish to seal the basecoat, which protects from bumps, cuts and accidental damage. The decorative aspect of the top seal provides an aesthetically attractive appearance.

It is recommended that Nullifire primers, basecoats, and top seals are applied by approved trained specialists such as Nullifire Premier Contractors. Full details of our approved contractors can be obtained by contacting us, or visit www.nullifire.com

Which Primers are Suitable for My Installation?

All of the Nullifire products listed are suitable for areas C1, C2 and C3. For areas of C4 and above, please contact us for technical advice. Remember that C1 and C2 areas may contain large kitchens or other areas of high humidity which may have to be regarded separately.

C1: Very low corrosion risk

Interiors

Heated buildings with clean atmospheres (e.g. offices, shops, schools, hotels).

Exteriors

n/a

C2: Low corrosion risk

Interiors

Unheated buildings where condensation may occur (e.g. depots, sports halls).

Exteriors

Atmospheres with low level of pollution. Mostly rural areas.

C3: Medium corrosion risk

Interiors

Production rooms with high humidity and some air pollution (e.g. food-processing plants, laundries, breweries, dairies).

Exteriors

Urban and industrial atmospheres, moderate sulphur dioxide pollution, Coastal area with low salinity.

Choosing Primers and Top Seals

Anti-Corrosion Primers

Nullifire primers are designed to protect the surface of structural steel from corrosive attack.

Nullifire primers also provide a suitable key onto which a Nullifire intumescent basecoat can be applied.

Each Nullifire primer has been formulated to meet specific application conditions AND to be compatible with the Nullifire range of intumescent basecoats.

It is important to use products that have been tested together for compatibility. This ensures that costly adhesion problems are avoided, allowing the fire protection process to run smoothly. Compatibility also guards against delamination of the coatings once installed which can be extremely expensive to rectify once construction has finished and the building is in use.

Nullifire has tested all of its products within the range to avoid these issues, providing a high performance integrated system for all requirements from a single source.

Application

- Easy to apply via conventional airless spray (normally recommended)
- Can be applied by roller or brush

Decorative Top Seals

Nullifire top seals provide an outstanding quality decorative finish. This is particularly useful where the steel work remains exposed as opposed to being hidden by false ceiling installations or boarded behind columns. Some top seals are available in a range of shades and colours. Top seals also provide a durable finish that can be cleaned by wiping with a damp cloth. All Nullifire top seals have been tested with Nullifire Basecoats to ensure compatibility and performance.

Application

- Easy to apply via conventional airless spray (normally recommended)
- Can be applied by roller or brush



Anti-Corrosion Primers



- Available in 20 L or 5 L kits
- Two-pack product

PMO15

Two-Pack Aluminium Epoxy Primer

PMO15 provides an unequalled level of barrier protection and corrosion resistance on various steel types.

- Protects black steel, galvanised steel, and rusted steel
- Contains aluminium flakes to provide exceptional protection
- Long history of use in a number of industrial markets
- Self priming
- Corrosion protection with a single coat
- Low VOC
- Aluminium finish

Substrate	Black steel, galvanised steel, rusted steel
Colours available	Aluminium
Finish	Semi-gloss
Preparation	Grit blast steel to SA2 1/2 or equivalent. For galvanised steel, see TDS
WFT	87-115 µm*
DFT	75-100 µm*
Drying times: @20°C touch dry	6 hours
Drying times: @20°C full cure	3 days
Over coating: @ 20°C	6 hours*
Theoretical coverage	11.5 m ² /l at 50 µm
Thinners	FC002
Cleaners	FC002

* Maximum overcoating time depends on the basecoat. Please contact Nullifire for further information.



- Available in 20 L or 5 L kits
- Two-pack product

PMO18

Two-Pack Epoxy Primer

Multi-purpose epoxy primer. The product is heavy duty and high build.

- Protects steel in corrosive environments
- Excellent at low temperatures
- Ideal for areas where there may be condensation
- Semi-gloss finish
- Very good abrasion resistance
- Available in RAL 9002 White/Grey

Substrate	Black steel
Colours available	RAL 9002 White/Grey
Finish	Semi-gloss
Preparation	Hand clean/power tool or UHP water jet rig, see TDS
WFT	Normally 205 µm, see TDS
DFT	Normally 175 µm, see TDS
Drying times: @ 20°C touch dry	4 hours
Drying times: @ 20°C full cure	7 days
Over coating: @ 20°C	4 hours
Theoretical coverage	8.6 m ² /l at 100 µm
Thinners	FC002
Cleaners	FC002

Note: all primer drying times depend on film thickness, temperature, ventilation and local site conditions.

Anti-Corrosion Primers



- Available in 20 L kits
- Two-pack product

PMO19 Anti-Corrosion Transport Primer

Protects steel for up to three months prior to transportation onto site and over coating with a Nullifire basecoat.

- Provides steel with up to three months protection prior to coating
- Steel can be moved whilst protected
- Steel can be stored outdoors
- Excellent tie coat for SC901 and SC902
- Can be used as general primer
- Fast drying
- Red or Grey

Substrate	Black steel, galvanised steel
Colours available	Red/Grey
Finish	Matt
Preparation	Grit blast steel to SA2 1/2 or equivalent. For galvanised steel, see TDS
WFT	110 µm, see TDS
DFT	30 µm, see TDS
Drying times: @ 20°C touch dry	16 hours
Drying times: @ 20°C full cure	3 days
Over coating: @ 20°C	8 hours
Theoretical coverage	9.3 m ² /l at 30 µm
Thinners	FC002
Cleaners	FC002



- Available in 20 L kits
- Single-pack product

PMO20 Single-pack Alkyd High Build Primer

A single-pack solution that is well suited to production shops or sites that need fast cure to dry and handling times.

- Single pack
- Fast drying primer
- Compatible with all Nullifire Basecoats except the SC900 series
- Good filling properties on rough or pitted steel
- Easily sprayed with both airless and conventional equipment
- Traditional red colour

Substrate	Black steel
Colours available	Red
Finish	Matt
Preparation	Grit blast steel to SA2 1/2 or equivalent, see TDS
WFT	68 - 98 µm, see TDS
DFT	35 - 50 µm, see TDS
Drying times: @ 20°C touch dry	20 minutes
Drying times: @ 20°C full cure	3 days
Over coating: @ 20°C	8 hours (min.)
Theoretical coverage	11.0 m ² /l at 50 µm
Thinners	FC0010
Cleaners	FC002 or FC010



- Available in 20 L kits
- Two-pack product

PMO21

Two-Pack Epoxy Polyamide Primer

A two-pack general purpose 'inhibitive primer' that chemically reacts with the steelwork to create a corrosion resistant surface.

- General purpose primer
- Compatible with all Nullifire Basecoats
- Excellent corrosion resistance
- Can be used as a 'tie coat' when diluted, see TDS
- Flat finish
- Grey

Substrate	Black steel
Colours available	Grey
Finish	Matt
Preparation	Hand clean/power tool or UHP water jet rig, see TDS
WFT	100-300 µm, see TDS
DFT	50-150 µm, see TDS
Drying times: @ 20°C touch dry	90 minutes
Drying times: @ 20°C full cure	12 days
Over coating: @ 20°C	12 hours
Theoretical coverage	10.4 m ² /l at 50 µm
Thinners	FC002
Cleaners	FC002

Note: all primer drying times depend on film thickness, temperature, ventilation and local site conditions.



Decorative Top Seals



- Available in 20 L or 5 L kits
- Two-pack product

TSIB4

Two-Pack Acrylic Polyurethane Top Seal

- High gloss solid finish
- Available in a range of RAL colours
- Suitable for on-site or off-site application
- Excellent abrasion resistance
- Excellent resistance to weathering
- Easily sprayed with both airless and conventional equipment
- VOC compliant to current AIM regulations

Basecoat	SC901, SC902, SC801, SC802, S707, S708, S605, S606
Colours available	White and limited RAL colours
Finish	High gloss
Preparation	Apply to clean dry basecoat
WFT	115 µm
DFT	75 µm
Drying times: @ 20°C touch dry	4 hours
Drying times: @ 20°C full cure	3 days
Over coating: @ 20°C	12 hours
Theoretical coverage	8.6 m ² /l at 75 µm
Thinners	FC025 - spray, FC215 - roller
Cleaners	FC002





- Available in 10 L packs
- Single-pack product

TS815

Single-pack Modified Acrylic Top Seal

- Single-pack product
- Gloss finish
- Available in White and limited RAL colours
- Suitable for on-site or off-site application
- Fast drying
- Easily sprayed with both airless and conventional equipment
- VOC compliant to current AIM regulations

Basecoat

SC801, SC802, S707, S708, S605, S606



- Available in 20 L packs
- Single-pack product

TS816

Single-pack Water-Based Acrylic Top Seal

Single-pack, water-based acrylic top seal

- Attractive soft sheen washable finish
- Good abrasion resistance
- Easy application and excellent coverage
- Environmentally friendly with low odour
- Available in a limited range of RAL colours

Basecoat

SC801, SC802, S707, S708, S605, S606

Note: all top seal drying times depend on film thickness, temperature, ventilation and local site conditions.

Compatibility Tables

Key

Can use

Not approved

Contact us for details

Nullifire Primers				Intumescent basecoat											
				SC900 series basecoat				Water-based basecoat						Solvent-based basecoat	
				SC901		SC902		S707		SC801		SC802		S708	
Product reference	Pack	Pack size	System type	Tech	ETA	Tech	ETA	Tech	ETA	Tech	ETA	Tech	ETA	Tech	Tech
				PM015	Two	5 L, 20 L	Aluminium epoxy primer								
PM018	Two	20 L	Epoxyprimer												
PM019	Two	20 L	Epoxy anti-corrosive shop primer												
PM020	Single	5 L, 20 L	Alkyd high build primer												
PM021	Two	20 L	Epoxy polyamide primer												
No primer required under certain conditions (refer to Technical)															

Tech = Technical Approval ETA = European Technical Assessment

Nullifire Top Seals				Intumescent basecoat											
				SC900 series basecoat				Water-based basecoat						Solvent-based basecoat	
				SC901		SC902		S707		SC801		SC802		S708	
Product reference	Pack	Pack size	System type	Tech	ETA	Tech	ETA	Tech	ETA	Tech	ETA	Tech	ETA	Tech	Tech
				TS134	Two	5 L, 20 L	Acrylic polyurethane								
TS815	Single	10 L	Modified acrylic												
TS816	Single	5 L, 20 L	Water based acrylic												
No top seal required under certain conditions (refer to Technical)															

Tech = Technical Approval ETA = European Technical Assessment. An ETA approved top seal is available from Nullifire but please contact us for details.

Thinners and Cleaners

With high performance, integrated primer, basecoat and top seal systems, it is important that no one element is degenerated, causing the possible failure of the system.

With this in mind, Nullifire have developed a range of thinners and cleaners suitable for their systems. These products are specially formulated, taking into account the active ingredients of the products with which they are combined, so as not to lessen the functionality of the coating, and give maximum performance.

A list of compatible thinners and cleaners is included in the product data tables in this brochure.

Failure to use the correct thinner or cleaner as specified in the appropriate Nullifire technical data sheet could result in the non-performance of the products and the voiding of any product warranties, specific or implied. For more information on thinners and cleaners, please contact our Technical Services Department.



- Cleaner 25 L packs

- Thinner 5 L tins



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