


# Fencing



Highly durable thermoplastic coatings for chain link, welded mesh, continuous mesh and ornamental fences

Long lasting, simple, cost effective...

A photograph showing a coastal park scene. In the foreground, a blue, curved metal fence is visible. In the background, there is a grassy area, a beach, and a blue ocean under a clear sky. Several tall, thin trees are scattered across the landscape.

Plascoat PPA 571 thermoplastic coating still looks new after being subjected to 15 years of sea salt and the intense Brisbane sun

Welcome to an environmentally friendly world

# Introduction

## Why Plascoat?

Plascoat thermoplastic coatings have been used to protect metal fences from corrosion for over 20 years. Plascoat PPA 571 will protect your fence from corrosion for longer than any other competing product. Plascoat PPA 571 will ensure that your fence will be maintenance free for decades, saving you money and delaying eventual replacement.

Plascoat WireGuard is the cost effective alternative product for less demanding environments and has been specifically developed to coat outdoor wire fences, both continuous and welded mesh.

## Performance of PPA 571 and WireGuard versus alternatives

Extreme environments	PPA 571	WireGuard	Polyester	PVC	Galvanized only
Fences exposed to salt: coastal areas, marine environments world wide	✓ ✓ ✓	✓ ✓	✓	✓ ✓	✓
Fences exposed to sand abrasion: desert and beach environments world wide	✓ ✓ ✓	✓ ✓	✓	✓ ✓	✓
Fences exposed to extreme cold: coating flexibility at temperatures lower than -20°C	✓ ✓ ✓	✓ ✓	✓	✓	✓ ✓
Fences exposed to constant heat and humidity: tropical environments	✓ ✓ ✓	✓ ✓	✓ ✓	✓	✓ ✓
Fences exposed to chemicals: close to chemical plants, fuel stations or airports	✓ ✓ ✓	✓ ✓	✓	✓ ✓	✓
Fences exposed to intense sunlight: UV resistance	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓ ✓
Characteristics					
Ability to resist lichen, mould, moss and algae	✓ ✓ ✓	✓ ✓ ✓	✓	✓ ✓	✓
Ability to be electrostatically sprayed in hot weather	✓ ✓ ✓	N/A	✓ ✓ ✓	✓	N/A
Range of available colours	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓
Low toxicity on burning	✓ ✓ ✓	✓ ✓ ✓	✓	✓	✓ ✓
No leaching or emission of VOC, plasticizers or metals into the local environment	✓ ✓ ✓	✓ ✓ ✓	✓	✓	✓
 Best lifetime value	Protection level:    ✓ ✓ ✓ High    ✓ ✓ Medium    ✓ Poor				

**Plascoat PPA 571 has been protecting fences from corrosion in some of the most demanding regions of the world**









# Our product range

## Complete global coverage for all your metal fence coating needs

Our range of thermoplastic coating powders will protect your metal fences for life. We provide protection solutions no matter what environment your fences are subjected to or what type of metal fence you use.

See the table below to see what coating product is best for you.

		Ornamental	Welded mesh	Chain link	Metal posts	Continuous mesh
Extreme environments C5-I / C5-M	Tropical environments 	PPA 571 spray or dip	PPA 571 spray or dip	PPA 571 extrusion or dip	PPA 571 spray or dip	PPA 571 spray or dip
	Desert environments 	PPA 571 spray or dip	PPA 571 spray or dip	PPA 571 extrusion or dip	PPA 571 spray or dip	PPA 571 spray or dip
	Marine, coastal and road salt environments 	PPA 571 spray or dip	PPA 571 spray or dip	PPA 571 extrusion or dip	PPA 571 spray or dip	PPA 571 spray or dip
	Snow and ice environments 	PPA 571 spray or dip	PPA 571 spray or dip  WireGuard dip	PPA 571 extrusion or dip  WireGuard dip	PPA 571 spray or dip	PPA 571 spray or dip  WireGuard dip
General C1 - C4	General urban, industrial and rural environments 	PPA 571 spray or dip	PPA 571 spray or dip  WireGuard dip	PPA 571 extrusion or dip  WireGuard dip	PPA 571 spray or dip	PPA 571 spray or dip  WireGuard dip

# Product overview - Plascoat PPA 571

## PPA 571

Plascoat PPA 571 is the best anti-corrosive protective coating for metal fences on the market today. It will significantly increase the maintenance-free lifetime of any fence, particularly if it is exposed to demanding environments. Plascoat PPA 571 can be used to coat metal fence posts as well as wire work.

Plascoat PPA 571 will outlast all traditional powder coatings in terms of:

- Corrosion protection
- Cosmetic appearance
- Resistance to salt and sand abrasion
- Resistance to UV damage and colour fading
- Impact damage
- Graffiti damage
- Sub-zero temperature performance

Plascoat PPA 571 is not harmful to the local environment:

- No plasticizers
- No VOCs
- No heavy metals
- Very low smoke on burning

### Advantages for extrusion coating (PPA 571 XT)

- Faster line speeds
- Thinner, more controllable coating
- Adhesion without the use of a primer

### Advantages over PVC coatings

- Will outlast PVC coatings in demanding environments
- Can be easily sprayed directly onto the metal, no primer required
- Completely environmentally friendly, no plasticizers, chlorine or halogens

### Advantages over Polyester coatings

- Will outlast polyester coatings
- PPA 571 remains flexible in all climates and will withstand bending
- No need for a primer coat



*This ornamental perimeter fence is coated in Plascoat PPA 571*

Extensive Plascoat lab tests and real world use indicate a working life of over 70 years.



*Plascoat PPA 571 XT is widely used to coat continuous wire that is then used to make chain link fences*

Plascoat PPA 571 coated fences are compliant to ASTM F668-07 and ASTM F1043-08 fencing standards. Plascoat is also a member of the American Fence Association, Inc and the European Fencing Industry Association.

# WireGuard F40

Plascoat WireGuard F40 has been specifically developed for the coating of outdoor wire metal structures such as welded or continuous mesh fences.

Dubbed as the alternative to PVC wire fence coating, Plascoat WireGuard F40 offers superior cosmetic and longevity performance at a similar manufacturing cost. Other benefits include:

### Factory

- Save 35% on material quantities to achieve the same coating thickness as PVC
- Save time and money in the production process, Plascoat WireGuard F40 requires no primer
- Save energy costs on low oven temperatures
- No need for expensive ventilation equipment or air scrubbers. Ideal for factories located in urban areas

### In service

- Coating will withstand flexing caused by wind and temperature changes down to -20°C
- Fence can be unrolled easily in the cold, therefore extending the fence construction season
- Excellent salt-spray and UV resistance
- Superior low temperature properties, coating will not crack or become brittle

WireGuard is not harmful to the local environment:

- No plasticizers
- No VOCs
- Very low smoke on burning
- No heavy metals

## Plascoat WireGuard F40

Plascoat WireGuard F40 is available in a fluidised bed (dip) grade for the coating of welded and continuous mesh.



*This welded mesh fence panel is coated in Plascoat WireGuard F40*



*This continuous mesh fence is coated in Plascoat WireGuard F40*

The SGS logo is displayed in a large, bold, grey font. It is positioned on the left side of a light grey rectangular box. A thin orange vertical line is to the right of the letters, and a thin orange horizontal line is below them, forming a partial crosshair.

SGS is an independent testing laboratory based in the United Kingdom. They test and certify the performance of submitted coating materials against international benchmarks. SGS is recognised as the global benchmark in quality and integrity.

“

After this series of laboratory performance tests, the following can be concluded:

- Plascoat PPA 571 ES is **not affected by immersion nor by UV-exposure** during the tests executed.
- **Neither adhesion nor appearance is affected** by any of the tests performed.
- **Resistance to corrosion and under-creep corrosion is good to excellent** during the tests that were performed.
- The tests executed did not show any significant difference in performance between phosphated steel panels and sandblasted steel panels.

Some extra performance (especially adhesion-wise) could probably be achieved by providing for a higher anchor pattern than was the case on the blasted test panels.

Therefore, applications where Plascoat PPA 571 ES is

applied properly onto well prepared surfaces (as per the Technical Data Sheets), can be allotted at least the following feasible Insurance Backed Guarantee periods:

- **10 years** in C1, C2, C3 and C4-environments (according to ISO 12944)
- **5 years** in C5-I and C5-M environments (according to ISO 12944)



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# Product overview - Plascoat PPA 571



## RATP report (Paris Metro)

The RATP (Autonomous Operator of Parisian Transports) report completed for the Paris Metro authority undertook a study to assess the graffiti resistance of the PPA 571 series.

A variety of colours of PPA 571 ES were tested with a variety of graffiti inks and colours.

The coatings were tested to NF F 31-112 using graffiti remover. Results: No graffiti or shadow left on surface. NF F 31-112 standards are used by RATP and SNCF(French National Railways).

Graffiti can be easily removed  
from PPA 571 surfaces

## Swedish Corrosion Institute

The Swedish Corrosion Institute completed research on the advantages of thermoplastic powder coating technology in the protection of metals. They found that PPA 571 was able to withstand the rigours of subterranean environments for over 200 years.

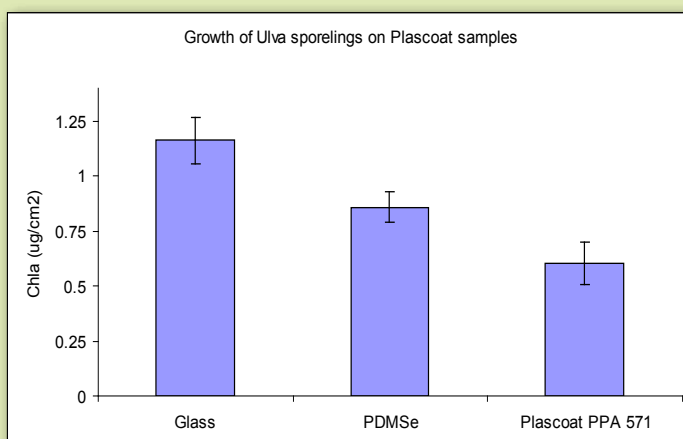
In conjunction with our own testing and others such as SGS, lab tests suggest a successful working lifetime above ground in excess of 70 years.

## Mould and Fouling

Our extensive laboratory tests have shown that PPA 571 is resistant to mould and fouling in air, ground and submerged underwater.

It provides little to no footing for plants, fungus and sea creatures, and it proves difficult for eggs or spores to adhere to. It degrades more slowly as it is not consumed by plants or animals.

Thus growth rates for algae, mildew, seaweed and barnacles are slower than on many other coatings. This means maintenance costs are reduced through fewer visits and easier removal.



Coating	Time of exposure	Mildew Growth
PVC	12 months	4 - 8
PVDF	12 months	1 - 2
	36 months	2 - 7
PPA 571	36 months	0 - 1

### Fencing for Seaside Areas

#### Exceptional and long-lasting aesthetics: PPA 571 will deliver major long-term cost savings

Take a close look at the bottom picture and it is hard to believe that this fence, coated in PPA 571, is **15 years old**. It still looks new and will save the local Australian authority money over the coming years by avoiding having to recoat or replace this fence.

#### Say yes to PPA 571 coated fencing by the sea

The two pictures on the right tell a completely different story. Across the road from the nice-looking PPA 571 coated fence are these polyester coated fences. Coated and installed at the same time, you can see they have suffered terrible air-borne salt corrosion on their sea-facing side. These fences will soon need to be taken down and recoated *or even replaced* at significant cost to the local authorities.

“

**Using PPA 571 to coat your fence in coastal areas will deliver the lowest whole life cost of any coating.**

”

 **PPA571**



**No tricks**

**This is exactly how the fence looked after 15 years of being by the sea.**



### Fencing for Swimming Pools



The pool fencing criteria:

- Legal requirements in some US States, France and Australia state safety barriers must be erected to prevent children from accessing the edges of a pool without supervision.
- Environment is wet, often humid, and exposes the fencing to chemicals such as cleaning and disinfecting agents.
- Private pools need an aesthetically pleasing finish.
- Public pools with high traffic need to resist wear and tear.

The PPA 571 coating solution:

- Totally resistant to swimming pool chemicals, including chlorine.
- Excellent long-term corrosion protection, even if damaged.
- Warm, tactile feel and wide range of colours make it an aesthetic choice for pool barriers.
- Extreme resistance to wear and tear, in high use applications such as public swimming pools.
- Totally safe and environmentally friendly, with no dangerous chemicals or metals.



“ One of the most  
*environmentally friendly*  
coatings available on the  
market today. ”



### Fencing solutions for Dubai

**PPA571**

The fencing project:

- Gas pipes and other infrastructure needed protection from vehicles and passing traffic and the demanding desert environment, including extreme fluctuations in heat and cold, high humidity and very abrasive sandstorms.
- Polyester, galvanization and PVC are unable to withstand these conditions without costly maintenance, repair and replacement.

“

Coatings have to withstand *extreme fluctuations* in temperature as well as high humidity and desert condition sandstorms

”



The PPA 571 coating solution:

- Highly resistant to heat and cold, with excellent protective properties even at extreme temperatures.
- Tough coating resists wear and damage from sand, stones and grit.
- Extreme durability allows for very long lifespan, with no costly replacement programs to remote desert sites.
- Takes damage without failure; the excellent adhesion means no creep, peeling or cracking.





### Fencing solutions for Nottingham

**PPA571**

The fencing project:

- Expansion of Nottingham Tennis Centre required significant new chain-link and other fencing items.
- The client needed value for money, with long-term durability and aesthetics.
- The public nature of this facility meant a durable, damage-resistant coating needed to be found.

The PPA 571 coating solution:

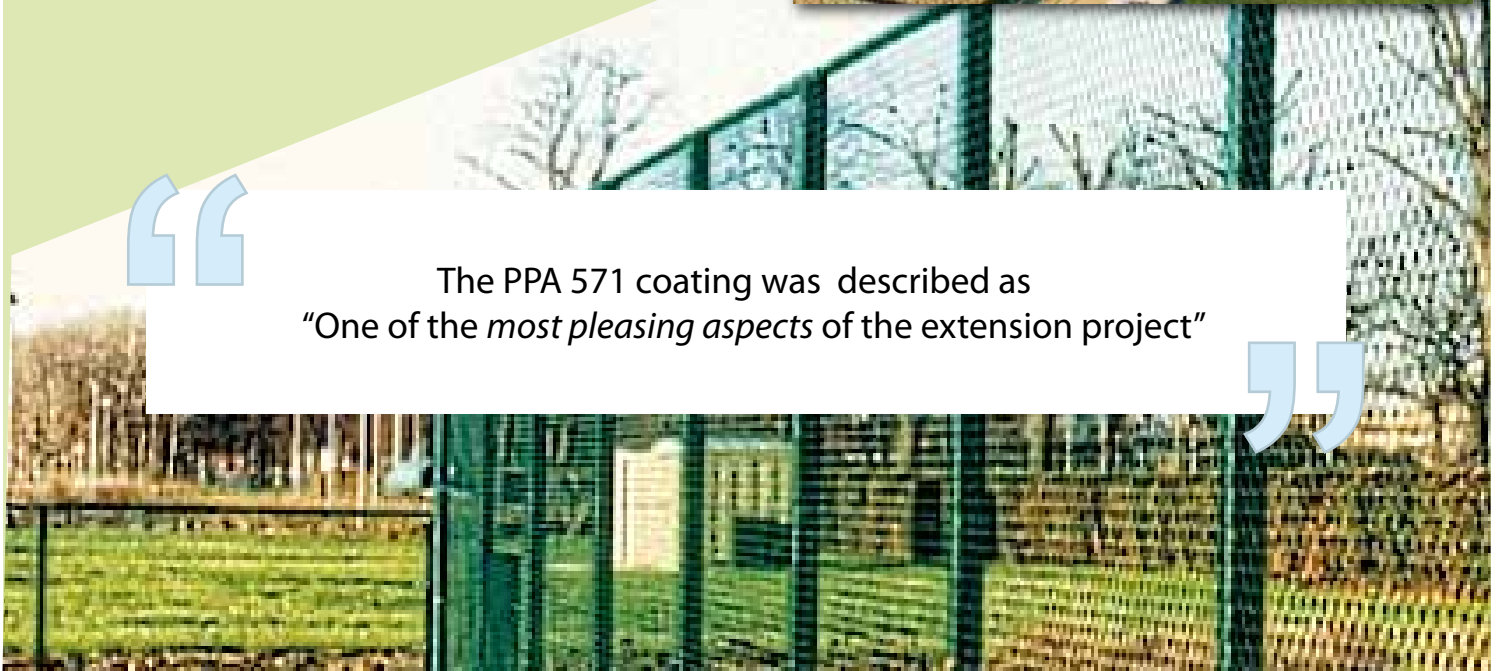
- Excellent adhesion means very long-life corrosion protection.
- Resistance to UV exposure means that our coating does not fade.
- Low mould and lichen growth rate prevents damage to aesthetics and minimises costly cleaning.
- Extreme flexibility (800% elongation to break) of coating means wire fence movements never affect its protection.
- No need for a primer, minimising costs and simplifying production.



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The PPA 571 coating was described as  
“One of the *most pleasing aspects* of the extension project”

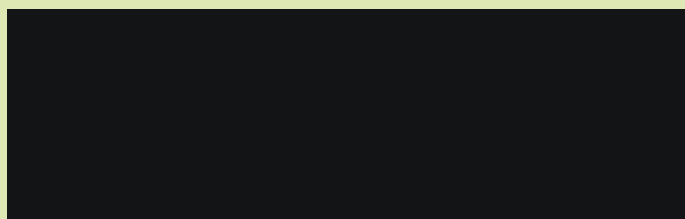
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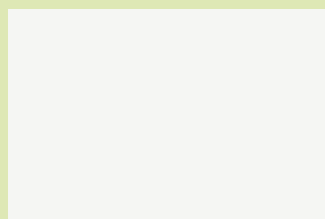


Our fencing colour range covers all usual colours desired for fence projects. Larger orders can command a customised colour service to match your specific needs.

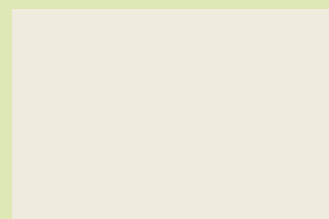
Our colour list is referenced in Plascoat 3-digit codes, and RAL or British Standard Colour codes where appropriate.



Black 700 | RAL 9005



White 110 | RAL 9016



White 144 | RAL 9001



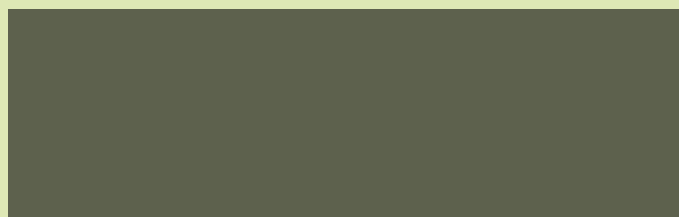
Green 475 | RAL 6005



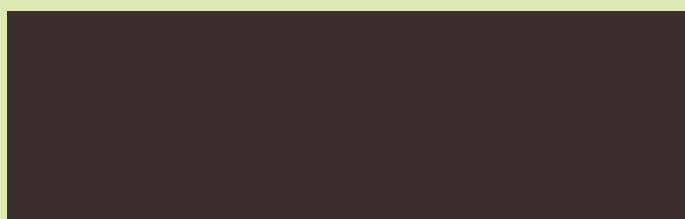
Green 440



Woodland Green CM178T02



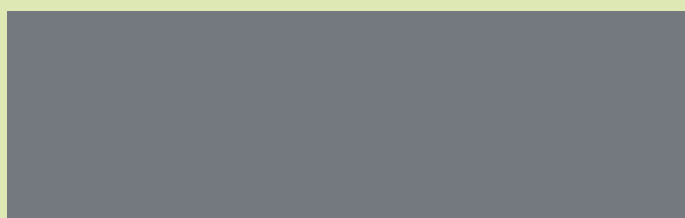
Spruce Green 418 | BS284



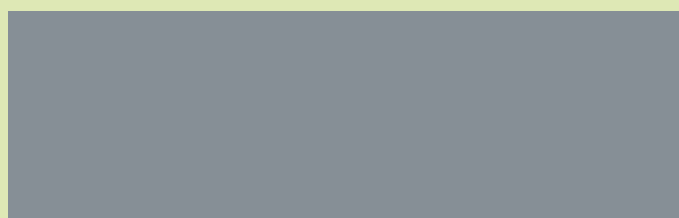
Brown 838 | RAL 8017 | BS08B29



Brown 803



Grey 695 | RAL 7046



Grey 654 | RAL 7001

**Please note:**

Whilst every effort is made to ensure the colours on this page are as accurate as possible, due to printing and on-screen limitations this card should be used as guidance only. Colours reflect the coated finish, and are matched to the nearest RAL value. Samples are available as coated plates or powder.



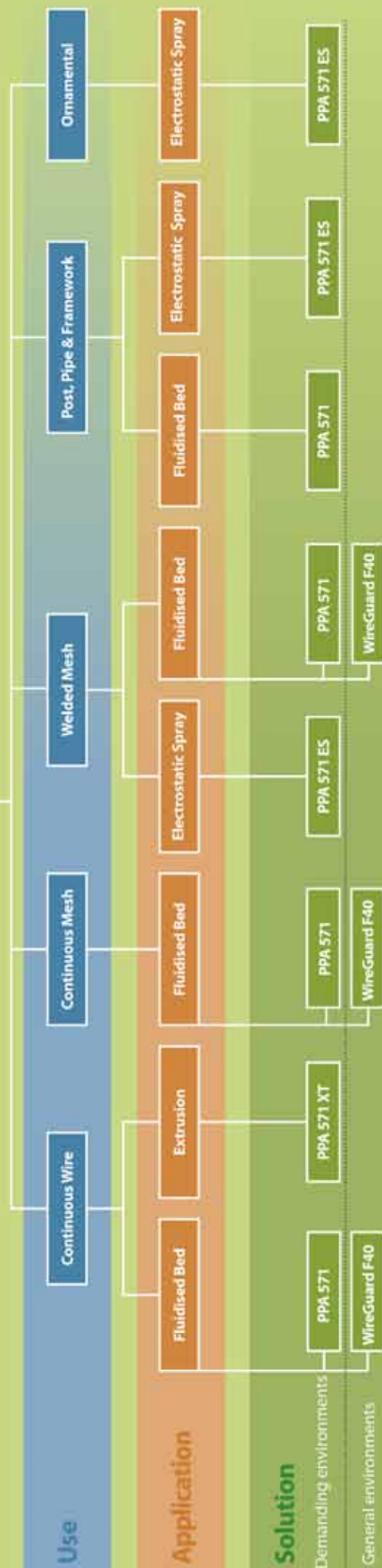
**Plascoat®**

THE ART OF PROTECTION

## Polyolefin Coatings for Fencing – *in Harmony with Your Environment*



### Fencing



## Our expertise - your guarantee

Here at Plascoat we have, for over 60 years, pioneered the science behind thermoplastic polyolefin coatings as well as the engineering knowledge on application and manufacturing.

You can be sure our products are of the highest standards in the industry, with multiple international and national certifications, approvals and affiliations.

Even with excellent coatings, know-how is still needed to create final client products. Our experienced technical staff are on hand to help you with your queries on work-flow, processing, coating properties, colour matching, application techniques, settings and recycling, and much more.

At Plascoat we wish to bring you the best products with unequivocal technical service.

“

**We will provide not only the best products, but also the best technical assistance**

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For more information regarding the technical service we can provide alongside your product orders, please contact your area sales manager.





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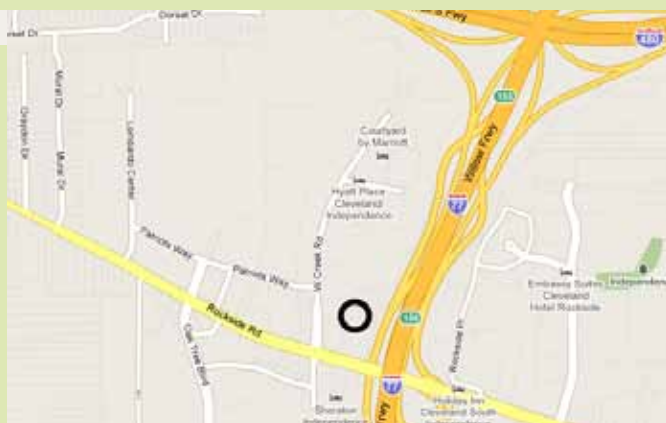
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## Plascoat approved distributor

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[www.plascoat.com](http://www.plascoat.com)



 **PPA571**

 **WireGuard F40**

Polyolefin coatings for fencing -  
in harmony with your environment

The information given here is, to the best of our knowledge, true and accurate. Product and item design, pre-treatment, coating conditions, quality assurance and conditions of product end use are among the factors that affect performance of the coated products and are outside Plascoat control. Conditions under which our materials may be used are beyond our control. The suitability for application and performance of finished goods coated with Plascoat material is the sole responsibility of the customer and end user. Plascoat expressly denies specific or implied warranties, including warranties for fitness for a particular use or purpose.



PPM 02185



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