ENNIS-FLINT®

by PPG

Beyond the Lines

Road marking product range

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About us

PPG Traffic Solutions (PPG TS) was established following PPG's acquisition of Ennis-Flint, Inc. in December 2020. Since then, we have been committed to protecting and beautifying the world.

PPG TS EMEA (Europe, Middle East, Africa) is equipped to serve and exceed our customers' traffic safety and pavement marking requirements with our full range of quality products, vast geographic reach , and unmatched customer support.

Our areas of expertise include, but are not limited to:

- Road Markings
- Airfield Markings
- Micro-mobility
- Decorative Markings
- Off-Highways Markings
- High Friction Surfacing
- Road Studs
- Bridge Expansion Joints
- Joint and Crack Sealants

About
our products

Formulated with high quality resins, pigments and fillers, our road marking product range includes a variety of materials engineered to meet all performance and climate requirements. Our large portfolio consists of line marking products for screed, extruded, spray, profiled and preformed applications that can be used for highways, car parks, airfields, cycle lanes, bus lanes, footpaths, decorative markings and many more.

Sustainability

Our UK manufacturing site is ISO EN 14001 certified and uses electricity from 100% renewable sources.

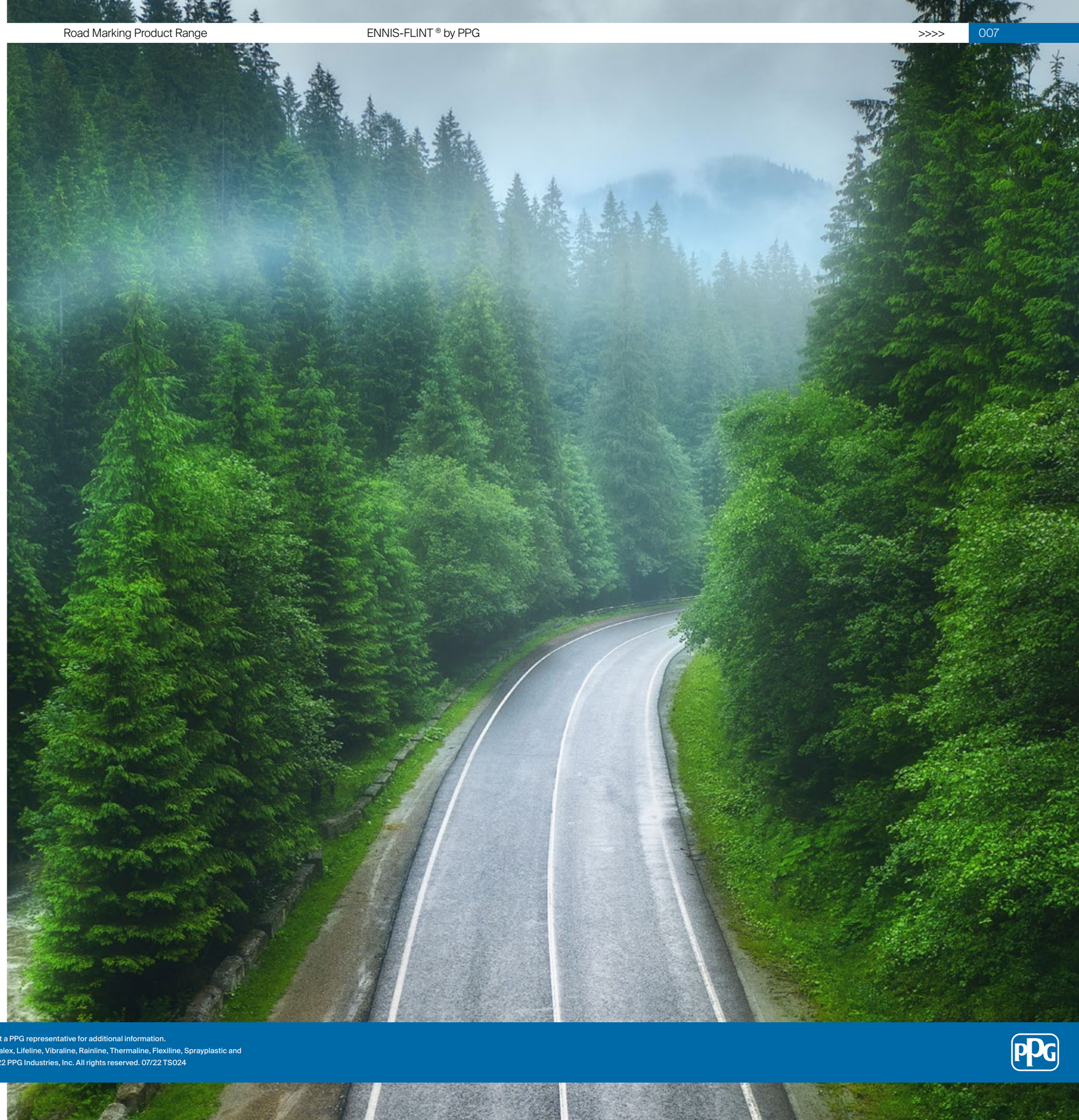
We are committed to sustainability across our product range; our thermoplastic products contain 98% bio-based resin, up to 45% recycled materials, and up to 60% of the bauxite in our products comes from repurposed wate.

Certification

Our range is compliant with BS EN 1436 Road Marking Performance for road users and include products assessed for durability at road trials to BS EN 1824 and EN13197 for UK and wider European markets including France and Denmark.

STIMSONITE® roads studs are UKCA and CE marked.

All of our manufacturing sites in EMEA are ISO EN 9001 certified.



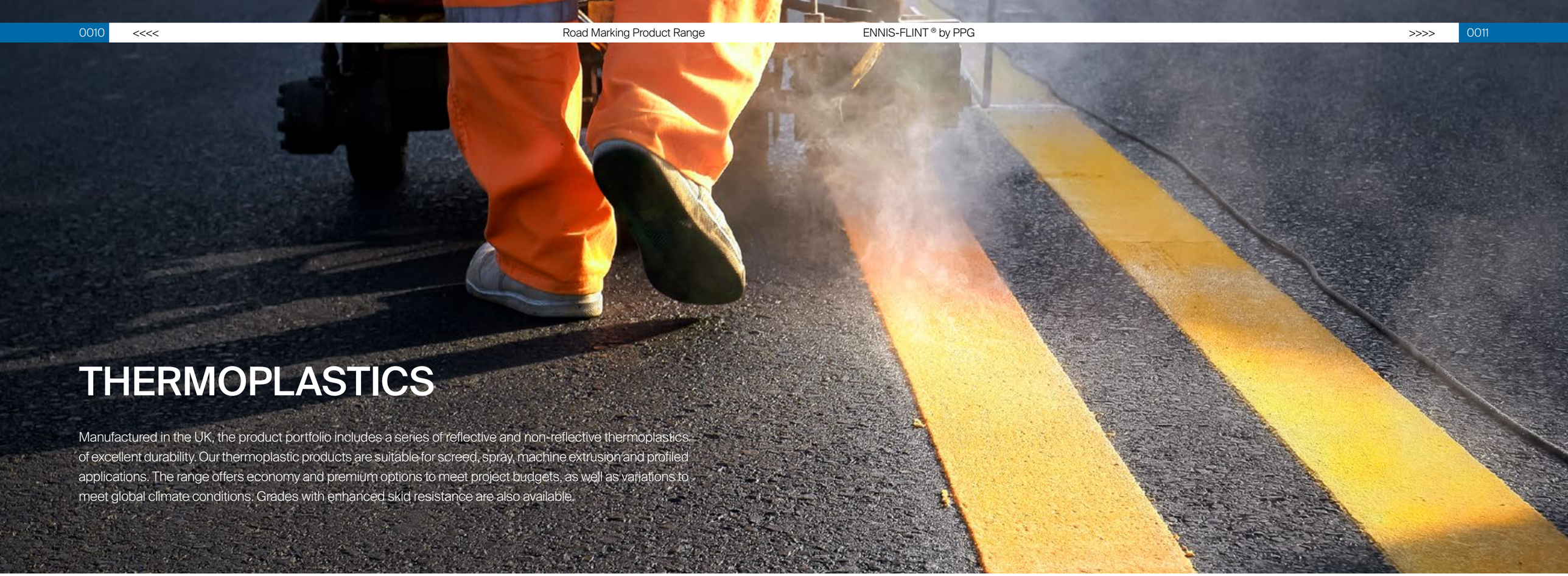
Our Road Marking
Product Range

Thermoplastics	Screed	Extrusion	Spray	Performed
Non-reflective grades				
GUIDEMASTER®	•	•		
Reflective grades				
CRYSTALEX®	•	•		
LIFELINE®	•	•	•	
VIBRALINE®		•		
RAINLINE®		•		
MULTIDOT		•		
THERMALINE®				•
FLEXILINE®				•
Both reflective and non-reflective				
SPRAYPLASTIC			•	

MMA	Screed	Extrusion	Spray	Roller
ROBUR	•	•	•	•

TRAFFIC PAINTS	Brush	Roller	Airless	Air-assisted
Solvent-based				
FS01	•	•	•	•
SPARTRAFFICO ACRILICO BIANCO T	•	•	•	•
Waterborne				
WB	•	•	•	•
HELIX	•	•	•	•
X7 AF	•	•	•	•
VERACE	•	•		•

ROAD STUDS	
STIMSONITE®	980, 381c/980, 381/C80, L101LCPR/C40



THERMOPLASTICS

Manufactured in the UK, the product portfolio includes a series of reflective and non-reflective thermoplastics of excellent durability. Our thermoplastic products are suitable for screed, spray, machine extrusion and profiled applications. The range offers economy and premium options to meet project budgets, as well as variations to meet global climate conditions. Grades with enhanced skid resistance are also available.

GUIDEMASTER®

A non-reflective thermoplastic road marking material available in White, Yellow, Primrose, and Deep Cream. It can also be supplied as a neutral base without any colourant, which can be tailored to your own requirements based on the available pigments from PPG TS.

It is suitable for application by screed. On highways it is used for traffic delineation, advisory markings, and mandatory markings where there is Class 1 street lighting.

The Yellow, Deep Cream and Primrose are used mainly for areas with parking restrictions.

CRYSTALEX®

A reflective thermoplastic road marking system available in White and Yellow. It is available in a wide range of performance and composition specifications to meet all country demands. It is suitable for application by screed or extrusion.

On highways it is used for traffic delineation, advisory markings and mandatory markings, and any other areas where a night-time reflectivity is required.

The CRYSTALEX® reflective thermoplastic road marking system range includes a variety of products assessed for durability at BSI, VTI and BENOR road trials to EN 1824 and AETEC, and BASt to EN13197.

LIFELINE®

A high quality reflectorised thermoplastic road marking system available in a wide range of performance levels for screed, extrusion, and spray applications.

The LIFELINE® reflective thermoplastic road marking system range includes a vari ety of products assessed for durability at BSI and VTI road trials to EN 1824.

SPRAYPLASTIC

A thermoplastic road marking for spray applications engineered to meet warm climate demands. The range includes reflectorised and non-reflectorised grades in white and yellow, respectively.

The Sprayplastic thermoplastic road marking system range comprises a variety of products assessed for durability at AETEC in accordance with EN13197.

RAINLINE®

RAINLINE® is a specialist thermoplastic road marking material which is profiled to maximise wet night visibility. The thermoplastic is applied by extrusion or screed techniques and immediately embossed to create a continuous pattern on inverted profiles on the road surface, as edge, lane line or centre line carriage markings.

The profiling prevents water accumulation, thus minimising the threat of aqua planning or icy roads. It maintains its visibility across different lighting conditions and retains its shape even in heavy traffic areas. Rainline thermoplastic road marking material has been assessed for durability at BSI road trials to BS EN 1824.

MULTIDOT

A high performance reflectorised thermoplastic which is structured for an enhanced wet night visibility.

The shape of dots differs within the EMEA region and depends on the machine manufacture design of the application unit . Multidot has been assessed for durability at AETEC in accordance with EN 13197 as well as VTI and BENOR road trials to EN1824.

VIBRALINE®

VIBRALINE® specialist thermoplastic road marking material is the original profiled marking. This product can be laid as a profiled edge line marking to enhance wet night visibility.

Vibraline specialist thermoplastic road marking material provides a visual, sensory and audible warning to drivers straying out of lane, offering safety benefits in poor weather and additional sensory perception at all times.

Vibraline specialist thermoplastic road marking material has been assessed for durability at BSI road trials to BS EN 1824.

FLEXILINE®

FLEXILINE® preformed thermoplastic is versatile and cost-effective, ideal for reinstatement road markings, car parks and docks.

Quick and easy to apply year-round, it can be trafficked within minutes of application. Flexiline preformed thermoplastic is a durable product that is available in preformed lines, letters, numbers and symbols in a variety of colours.

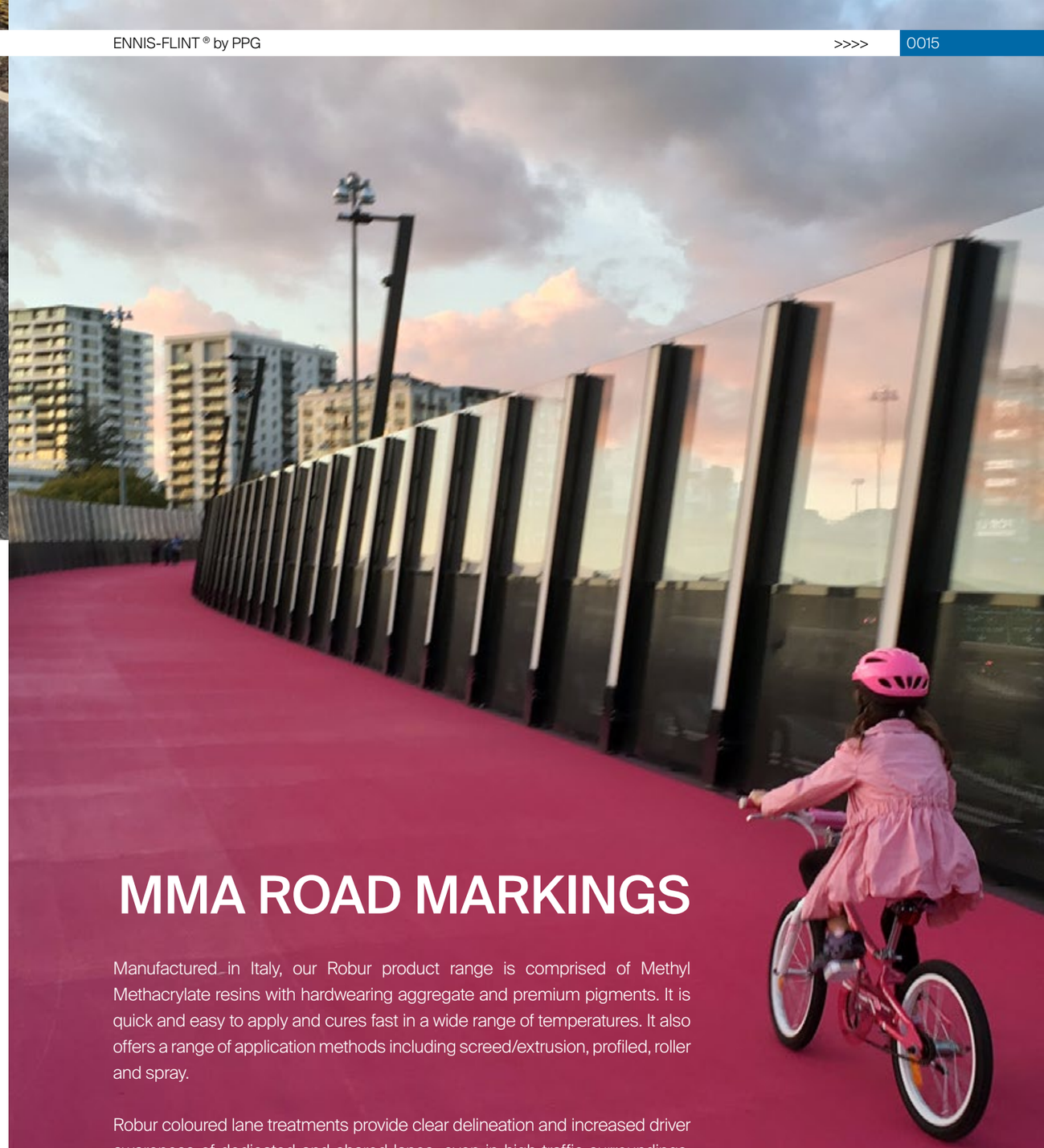
THERMALINE®

A preformed thermoplastic marking engineered to provide optimal performance and lasting value, offered in a variety of colours. It is formulated for enhanced skid resistance, superior retroreflectivity and visibility.

THERMALINE® preformed thermoplastic road marking material can be used for lines and symbols for non-regulatory applications such as symbols for car parks, 'kiss & ride' and marking of EV charging stations. Thermaline XF preformed thermoplastic road marking material can be used for regulatory marking, including arrows, lines for intersections and symbols for highways.

The pre-cut, interconnected signs and symbols that are ready to use out of the box. Simple application with a propane heat torch. The Thermaline preformed thermoplastic road marking material range can be installed all year-round and its installation is compatible with our MMA screed products, Robur® Screed.

Thermaline XF preformed thermoplastic road marking material has been assessed for durability at BASt and AETEC in accordance with EN 13197. It is KIWA certified, and CE marked.

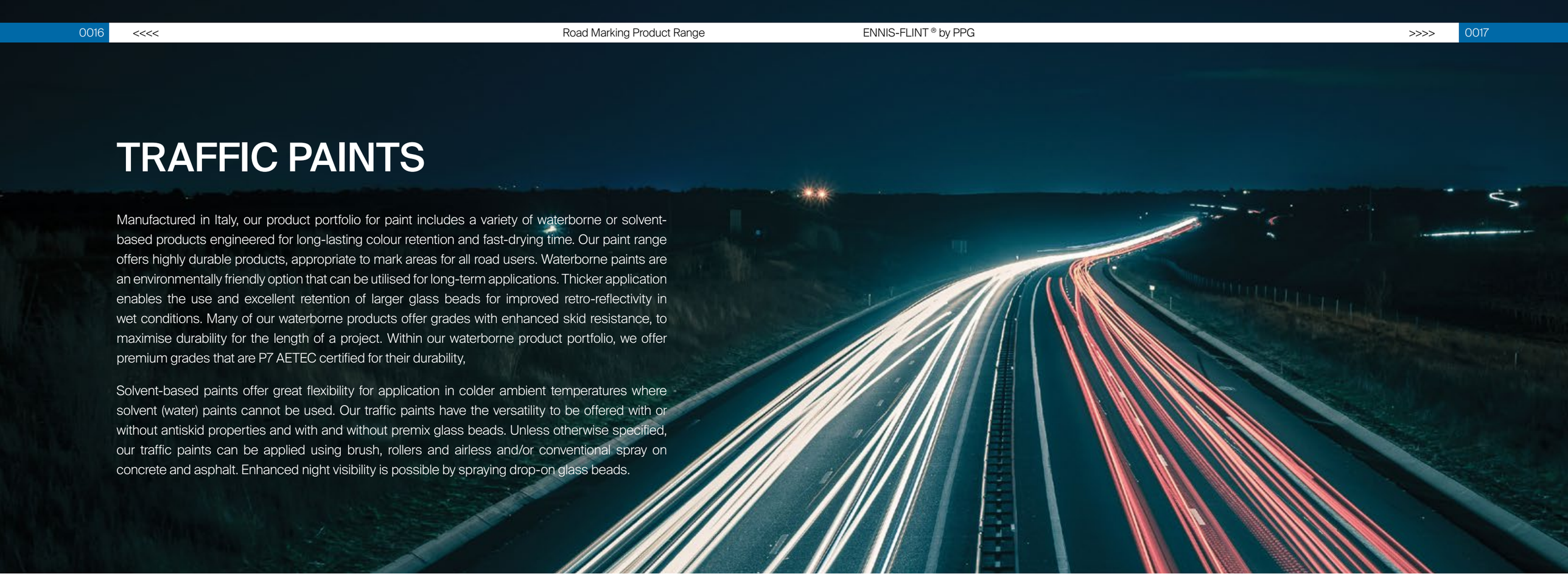


MMA ROAD MARKINGS

Manufactured in Italy, our Robur product range is comprised of Methyl Methacrylate resins with hardwearing aggregate and premium pigments. It is quick and easy to apply and cures fast in a wide range of temperatures. It also offers a range of application methods including screed/extrusion, profiled, roller and spray.

Robur coloured lane treatments provide clear delineation and increased driver awareness of dedicated and shared lanes, even in high traffic surroundings. Robur has been assessed for durability at BASt (Robur Screed and Robur Spray) and AETEC (Robur Spray and Robur Structured) in accordance with EN 13197. For more information on certification, check Vernisol website.

TRAFFIC PAINTS



Manufactured in Italy, our product portfolio for paint includes a variety of waterborne or solvent-based products engineered for long-lasting colour retention and fast-drying time. Our paint range offers highly durable products, appropriate to mark areas for all road users. Waterborne paints are an environmentally friendly option that can be utilised for long-term applications. Thicker application enables the use and excellent retention of larger glass beads for improved retro-reflectivity in wet conditions. Many of our waterborne products offer grades with enhanced skid resistance, to maximise durability for the length of a project. Within our waterborne product portfolio, we offer premium grades that are P7 AETEC certified for their durability,

Solvent-based paints offer great flexibility for application in colder ambient temperatures where solvent (water) paints cannot be used. Our traffic paints have the versatility to be offered with or without antiskid properties and with and without premix glass beads. Unless otherwise specified, our traffic paints can be applied using brush, rollers and airless and/or conventional spray on concrete and asphalt. Enhanced night visibility is possible by spraying drop-on glass beads.

Solvent paints

Typically used for line marking in highways and off-highways applications such as carparks, warehouses and sport facilities.

FS01 is a pure acrylic resin solvent paint (aromatic-free) supplied in white and yellow. This paint should be applied at minimum ambient of 10 °C and maximum relative humidity of 75%.

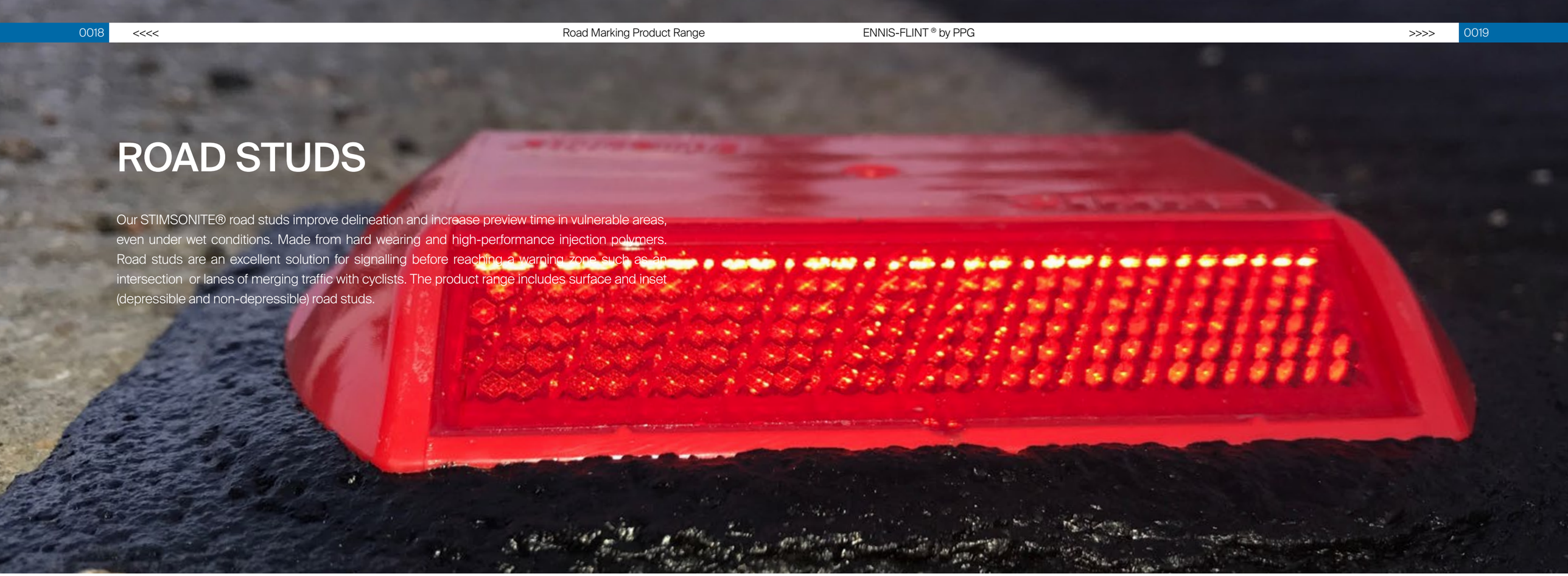
Spartraffico Acrilico Bianco T is a solvent-based paint, suitable for application with conventional marking machines. It is available in a variety of colours. Spartraffico Bianco T paints are exempt of aromatic solvents. This paint should be applied at minimum temperature of 5 °C and maximum relative humidity of 85%.

Waterborne paints

WB Series is a range of pure acrylic polymer latex binder, high solids, fast drying waterborne traffic paint suitable for application by airless or air atomized equipment. May be used to stripe roadways, parking lots. This paint offers all the benefits of a water reducible paint, and quickly dries to a no track condition. The range offers economic and premium products to meet a variety of budget requirements. This paint should be applied at minimum temperature of 10 °C and maximum relative humidity of 75%. The range include products that have been assessed for durability at ASCQUER and AETEC to EN 13197. Typically used for line marking in highway and off-highway applications such as carparks, warehouses and sport facilities. It is ready to use with drop-on glass beads.

The X7 AF is the waterborne paint within the range that is TTP-1952F certified for usage in airfields. This paint should be applied at minimum temperature of 5 °C and maximum relative humidity of 85%.

Helix with anti-skid and Verace are the high friction paints for surface colouring within the range. These waterborne acrylic paints are manufactured with pre-mixed antiskid material with stable long-lasting pigments in a variety of colours. Both products are engineered to provide high performance and durable markings that resists heavy traffic from motorless vehicles, making it ideal for cycling lanes, and sport facilities among other applications. Helix should be applied at minimum temperature of 10 °C and maximum relative humidity of 75%. Verace, however, can be applied on hot asphalt.



ROAD STUDS

Our STIMSONITE® road studs improve delineation and increase preview time in vulnerable areas, even under wet conditions. Made from hard wearing and high-performance injection polymers. Road studs are an excellent solution for signalling before reaching a warning zone such as an intersection or lanes of merging traffic with cyclists. The product range includes surface and inset (depressible and non-depressible) road studs.

Road Stud Adhesives

Our adhesives for road stud application are available as bitumen-based and thermoplastic-based. Our thermoplastic road studs adhesives are fast-drying, abrasion-resistant and highly durable, providing an exceptional bond to the road stud.

They are available in Black, White or Yellow for easy blending with asphalt. Bituminous product can also be used to bond pavement markers to asphalt and concrete. Adhesive exhibits high flexibility at low temperatures, while retaining good flow resistance. We offer a standard grade and tropical grade, to accommodate a variety of climates.

Ennis-Flint® by PPG STIMSONITE®

Model	980	381c.980	381.C80	L101CPR.C40
TYPE	Surface-mounted	Click-studs	Snow-ploughable	Snow-ploughable
Application Method	Road stud is secured using bitumen (stud grout) or thermoplastic adhesive	980 lens housed in 381 housing via click insert system. The 381 housing is placed into a milled hole and secured with stud grout	C80s are glued into the 381 metal housing. The 381 housing is placed into a milled hole and secured with stud grout	Installed with specialised cutting head. Can be secured into the road with stud grout
Lens design/colours	One & two-way lens White, Yellow, Red, Blue, Green	One & two-way lens White, Yellow, Red, Blue, Green	One & two-way lens White, Yellow, Red, Blue, Green	One & two-way lens White, Yellow, Red, Blue, Green
Certifications	UKCA, CE marked	UKCA, CE marked	UKCA, CE marked	UKCA, CE marked
Features	Abrasion resistance glass lenses and coating to provide enhanced retroreflectivity Advanced optics deliver high reflectivity and durability Specially engineered bottom ensures aggressive grip to the roadway Recommended for high intensity conditions	Abrasion resistance glass lenses and coating to provide enhanced retroreflectivity Ramps on the metal 381 housing engineered to protect the reflectors from heavy trafficking Designed to withstand all climatic conditions Lens easy to replace	Abrasion resistance glass lenses and coating to provide enhanced retroreflectivity Ramps on the metal 381 housing engineered to protect the reflectors from heavy trafficking Designed to withstand all climatic conditions Lens easy to replace	Abrasion resistance glass lenses and coating to provide enhanced retroreflectivity Narrow rails and low profile minimise snowplough impact Centre rail ideal for increased lens protection Recommended for high intensity conditions

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