



Heavy duty, anti-skid surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways

Triflex FMS

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Triflex FMS

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Surface car parks are generally marked with low technology materials, offering a restricted colour range and limited durability.

These areas can also be used to create a first impression for users and to improve safety through the use of colour, design and high quality materials. Designs can be formulated to create anything from traction strips on ramps, to road crossings, stop zones, cycle lanes and walkways.

The Triflex solution

The Triflex FMS system is a development of Triflex materials used for road markings in Europe, and in particular cycle lanes and road crossings. The system is exceptionally durable and is offered with a unique 10 year warranty as standard.

Unlike other markings, the Triflex FMS can be produced in a wide range of colours to provide a more dynamic design which either contrasts with or compliments surrounding schemes.

New possibilities can be explored such as incorporating pedestrian walkways on surface car parks or the use of bright, vibrant colours for pedestrian crossings.

The system is generally used stand alone on existing substrates such as road asphalt, but can be used in combination with other Triflex systems for example for traction strips on the Triflex PDS-Ramp and Triflex DFS-Ramp systems.

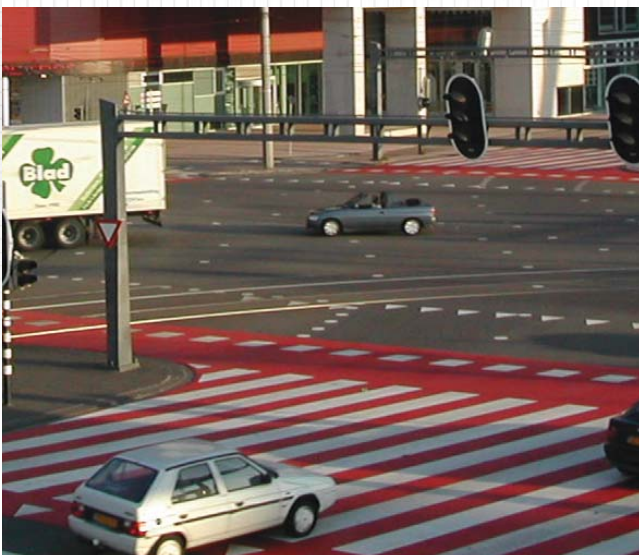
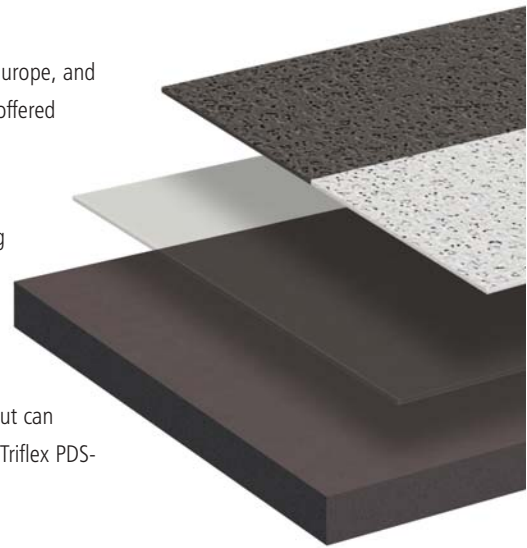
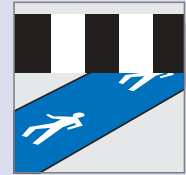
Design and specification

The Triflex Technical Team can assist clients in the choosing of colours and designs through our specialist rendered visualisation service. Digital images of the existing car park can be professionally rendered to provide a realistic visualisation of what can be achieved.

The Triflex Technical Team can also assist in the preparation of model specifications.

Suitable for:

Traction strips, road crossings, stop zones, cycle lanes and walkways



Triflex FMS

System Benefits

Heavy duty, anti-skid surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways

- WARRANTIED** :: The Triflex FMS is offered with the same warranties as all other Triflex car park waterproofing, surfacing and protection systems.
- COLOUR RANGE AND AESTHETICS** :: The Triflex FMS is UV stable and uses UV stable inorganic pigments meaning that colour is retained over time. Triflex FMS can be produced in virtually any colour, meaning that aesthetic and design requirements can be fulfilled. Through the use of coloured markings, new design possibilities can be considered.
- HEAVY DUTY WITH EXCEPTIONAL ABRASION RESISTANCE** :: Triflex FMS is based upon materials used for motorway line marking and offers exceptional durability and wear resistance. The physical properties of the system allow specification in the highest wear environments, including ramps, ramp aprons, road crossings and stop zones.
- COLD APPLIED WITH RAPID CURE TIMES EVEN AT LOW TEMPERATURES** :: All elements of the system are cold applied avoiding the risks and insurance costs associated with hot works. The rapid cure times ensure that areas marked with the Triflex FMS can be trafficked in as little as 20 minutes. The system can be applied at temperatures as low as 0°c ensuring that it can be installed all year round.
- SUBSTRATE COMPATIBILITY AND CHEMICAL BOND** :: The Triflex FMS system is compatible with virtually all substrates likely to be encountered on car park decks and can be used stand alone or in combination with other Triflex systems. The system can be applied directly to asphalt, Hot Rolled Asphalt and Stone Mastic Asphalt following simple cleaning.
- ANTI-SKID** :: Ensuring that the markings will provide adequate levels of slip resistance for both pedestrians and cars, making the car park safer, reducing the potential for accidents and providing an accepted defensible standard against claims.
- SIMPLE MAINTENANCE** :: The Triflex FMS can easily be cleaned and maintained using conventional methods.
- COMMITMENT TO THE ENVIRONMENT** :: The Triflex environmental policy is certified under ISO 14001. All Triflex car park marking systems are solvent and isocyanate free.
- QUALITY ASSURED MANUFACTURING** :: As all materials are manufactured to ISO9001 you can be assured of consistent quality.
- QUALITY DESIGN AND SPECIFICATION ASSISTANCE** :: The Triflex Technical Team can assist in all areas of the design and specification process.
- QUALITY INSTALLATION** :: The Triflex FMS system may only be installed by a Triflex Approved Contracting Partner or suitably trained line marking contractor approved by Triflex (UK) Limited.
- WARRANTIED PROTECTION** :: The Triflex FMS system is offered as standard with a 10 year materials warranty. Other warranties are available – please contact Triflex (UK) Limited directly for details.



Triflex FMS

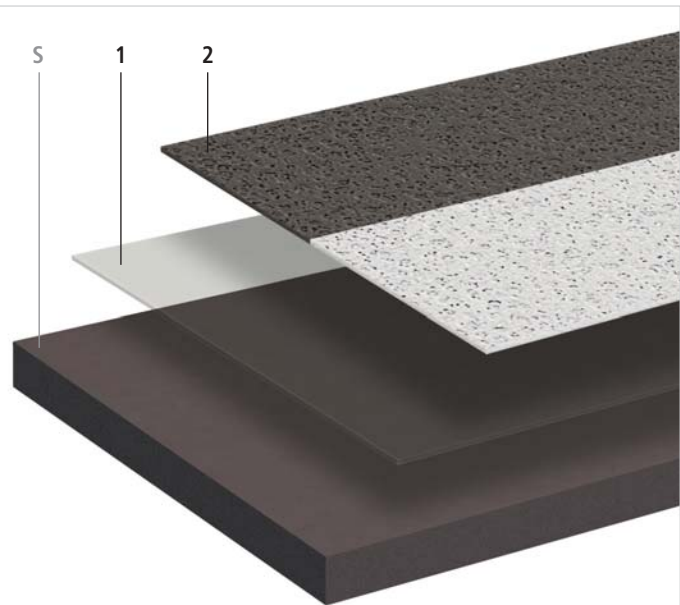
System Data Sheet

Heavy duty, anti-skid surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways

Properties

- Available in a wide range of colours
- Textured Anti-skid
- Tough
- High abrasion resistance
- Compatible with a wide range of substrates
- Cold applied
- Exceptionally fast curing
- Chemical resistant
- UV resistant
- Anti-skid
- Solvent free
- Isocyanate free
- Tailored design options

System Build Up



- S Substrate
- 1 Triflex Primer (if required)
- 2 Triflex FMS

System Details

Triflex Primer - Primer for sealing of certain substrates and to improve adhesion.

Triflex FMS - Heavy duty surfacing and marking system.

Applications

The system is suitable as a surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways.

Substrate Preparation and Priming

Substrate	Preparation Notes	Priming	
		Triflex FMS	
Triflex Materials	1	No primer required	
Asphalt	1	No primer required	
Hot Rolled Asphalt (HRA)	1	No primer required	
Stone Mastic Asphalt (SMA)	1	No primer required	
Concrete/Screed	2	Triflex Cryl Primer 276	
Lightweight Concrete	2	Triflex Cryl Primer 276	
Polymer modified concrete repair materials	2	Triflex Cryl Primer 276	

For other substrates, consult Triflex (UK) Limited for required preparation methods and priming.

Notes: 1 = Clean thoroughly

2 = Scarify, grind or lightly bead blast. The equilibrium moisture content of cementitious substrates must not exceed 6% or 75% RH. Where moisture levels are in excess of 6% equilibrium moisture or 75% RH refer to Triflex Pox R103.

Where there are any doubts as to adhesion, carry out an adhesion test.

Triflex FMS

System Data Sheet

Heavy duty, anti-skid surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways

Substrate Assessment

In all cases the condition and stability of the underlying substrate should be assessed prior to the commencement of work. See Substrate Testing section.

Substrate Preparation

Refer to substrate preparation and priming schedule.

Generally:

Remove existing markings, paint and finishes etc. by grinding.

Ensure that the prepared surface is clean, dry and free from dust, laitence, grease, oil and any other contaminants.

Priming

Refer to substrate preparation and priming schedule.

Triflex Cryl Primer 276:

Apply with a lambswool roller (0.4kg/m² min.)

Rainproof after approx. 30 minutes.

Can be walked upon/next coat applied after approx. 45 minutes.

Note: For new cementitious materials where it is not practical to allow the substrate to hydrate to below 6% equilibrium moisture content and 75% RH, or for existing cementitious substrates with higher levels of moisture, Triflex Pox R103 can be used where the equilibrium moisture content is less than 10%.

Triflex Pox R103:

Apply with a lambswool roller (0.5kg/m² min.)

Can be walked on after approx. 8 hours.

Next coat applied after approx. 18 hours.

Able to withstand stress after approx. 24 hours.

Marking Application

Apply Triflex Cryl M264 (4.0 kg/m² min.) by trowel, draw box, extruder or spray.

Can be walked upon after approx. 15 minutes.

Can be driven upon after approx. 20 minutes.

System Components

Please refer to the appropriate Product Data Sheet for details about areas of application/ application conditions/mixing instructions (available on request):

Triflex Cryl Primer 276

Triflex Pox R103

Triflex Cryl M264

Quality Standard

All products are manufactured to ISO 9001.

Substrate Testing

Prior to the commencement of work the Contractor must check and only proceed if he has satisfied the following requirements.

Hardness: All concrete substrates, concrete repair materials, screeds and mortars shall be cured and allowed to achieve a minimum hardness of 25N/mm².

Moisture: Prior to overlay with Triflex systems, the equilibrium moisture content of the substrate must not exceed 6% and 75% RH. For cementitious substrates with higher levels of moisture (less than 10% equilibrium) refer to Triflex Pox R103.

Adhesion: Trial areas to be prepared to ensure that the System achieves a minimum bond to the substrate of:

Concrete, concrete repair materials, screeds and mortars: 1.5N/mm²

All other substrates: 0.8N/mm²

Health and Safety

Refer to product Health and Safety data prior to using the materials.

Coverage Rates

The coverage rates given are guidelines based on smooth, level substrates. Allowances must be made if the substrate is uneven, rough or porous.

Drying Times

The drying times stated are at +20°C and are dependent upon weather conditions.

Important Notes

It is the Contractors' responsibility to ensure that the substrate is suitable and that the system is applied in all areas in accordance with Technical Data Sheets and Application Guidelines in force at the time.

The advice we can provide on the application of our products is based on extensive development work as well as many years of experience and is given to the best of our knowledge. However, the wide variety of requirements for a building under the most diverse conditions mean that it is necessary for the Contractor to test the product for suitability in any given case. We reserve the right to make alterations in keeping with technical developments or improvements.

Triflex FMS

Model specification

Heavy duty, anti-skid surfacing and marking system for traction strips, road crossings, stop zones, cycle lanes and walkways

M12 Surface Finishes

To be read with Preliminaries / General Conditions.

Surface Finishes reference

Triflex FMS

Manufacturer:
Triflex (UK) Limited
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Stone
Staffordshire
ST15 8GH
Tel: +44 (0) 1785 819119
Fax: +44 (0) 1785 819960
E-mail: info@triflex.co.uk
Web: www.triflex.co.uk

Generally

Apply Triflex FMS system fully in accordance with Manufacturer's System Data Sheet.

Substrate Assessment

Assess substrate in accordance with Triflex FMS System Data Sheet.

Substrate Preparation

Prepare substrate in accordance with Triflex FMS System Data Sheet.

Priming

Apply Triflex primer in accordance with Triflex FMS System Data Sheet.

Primer reference: Triflex Cryl Primer 276 / Triflex Pox R103.

Marking Application

Apply markings in accordance with Triflex FMS System Data Sheet.

Marking reference: Triflex Cryl M264.

Installation

The works shall be executed by a Triflex Approved Contracting Partner or suitably trained line marking contractor approved by Triflex (UK) Limited.

Required System Properties

- High visibility
- Dry film thickness > 2mm
- Totally cold applied
- Compatible with a wide range of substrates
- Exceptionally fast curing (maximum 20 minutes before trafficking)
- Chemical resistant
- UV resistant
- Anti-skid
- Solvent free
- Isocyanate free
- Standard 10 year materials warranty
- Optional extended warranty

General Notes

The Triflex FMS System Data Sheet is to be read as an integral part of this specification.

It is the contractor's responsibility to ensure that the substrate is suitable and that the system is applied in all areas in accordance with System Data Sheets and Application Guidelines in force at the time

Notes to Specifiers

We recommend that for all car park projects, the actual specification clauses for the Triflex waterproofing, surfacing and protection systems are prepared by the Triflex Technical Team.

This information can then be provided in a text format for insertion into Word and other documents.

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Test Data

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Test House

BAST Federal Traffic and Roads Authority
Bundesanstalt für Strassenwesen

Testing Details

Testing for:
Wear resistance (%)
Skid resistance (SRT Units)
Night visibility (mcd/m².lx)
Luminance factor (-)

Test Conditions

Rotational speed: 60 km/h and 10 km/h
Test tyres: Michelin MXV 2
Number of test tyres: 4
Wheel load: 3000 N
Tyre pressure: 2.2 bar
Camber of wheels: 0°
Steering angle: Alternatively ±1°
Test room temp: +5°C to +10°C
Running cycle: The specimens were exposed to water for three hours while the turntable was running at 10 km/h; then the specimens were rolled over at a rotary speed of 60 km/h until a number of 0.6, 1.0, 1.4, 2.0, 3.0 and 4.0 million roll cycles was reached, with the direction of rotation being changed every hour.

Properties	Test Results									
	Number of wheel cycles (millions)									
	0	0.1	0.2	0.4	0.6	1.0	1.4	2.0	3.0	4.0
Wear resistance (%)	100	100	100	100	100	100	100	100	100	100
Skid resistance (SRT Units)	64	52	49	48	48	48	46	45	45	41
Night visibility (mcd/m ² .lx)	254	337	308	292	257	238	211	178	175	163
Luminance factor (-)	0.69	0.69	0.69	0.69	0.69	0.68	0.68	0.68	0.64	0.65