

Heavy duty marking system for car park bays, lanes and deck signage

Triflex DMS

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Triflex DMS

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Worn out, discoloured and inadequate markings are a common site in car parks. Poor markings and deck signage can disrupt traffic flow, confuse users and can lead to potentially dangerous situations.

Little emphasis has been placed on markings in the past as specifiers have been restricted to just yellow and white, and traditional materials which often look unsightly when applied.

The Triflex solution

The Triflex DMS system is a development of Triflex materials used for road markings in Europe, and in particular de-restricted German autobahn. The system is exceptionally durable and is offered with a unique 10 year warranty as standard.

Unlike other markings, the Triflex DMS 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 wide parking bay lines to improve parking discipline or using colour to assist in deck identification, helping users more easily locate their vehicles.

The system is generally used in combination with other Triflex systems, but can be used stand alone on the existing substrate, for example on surface car parks.

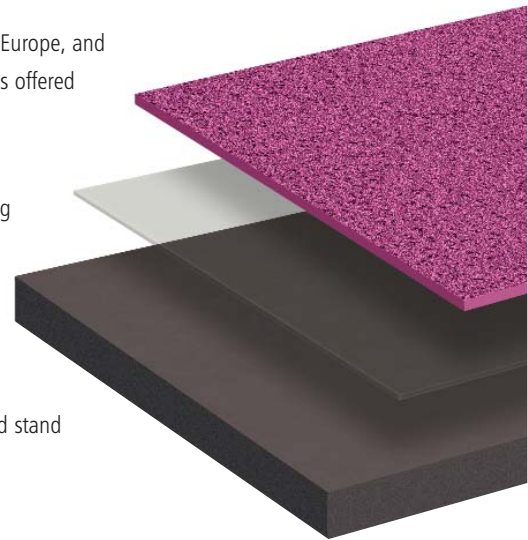
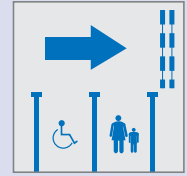
Design and specification

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:

Deck signage



Triflex DMS

System Benefits

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- WARRANTIED** ❑ The Triflex DMS is offered with the same warranties as all other Triflex car park waterproofing, surfacing and protection systems.
- COLOUR RANGE AND AESTHETICS** ❑ The Triflex DMS is UV stable and uses UV stable inorganic pigments meaning that colour is retained over time. Triflex DMS 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 DMS 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, making it particularly suitable for directional markings.
- 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 DMS 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 DMS 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 DMS 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 DMS 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 DMS system is offered as standard with a 10 year materials warranty. Other warranties are available – please contact Triflex (UK) Limited directly for details.



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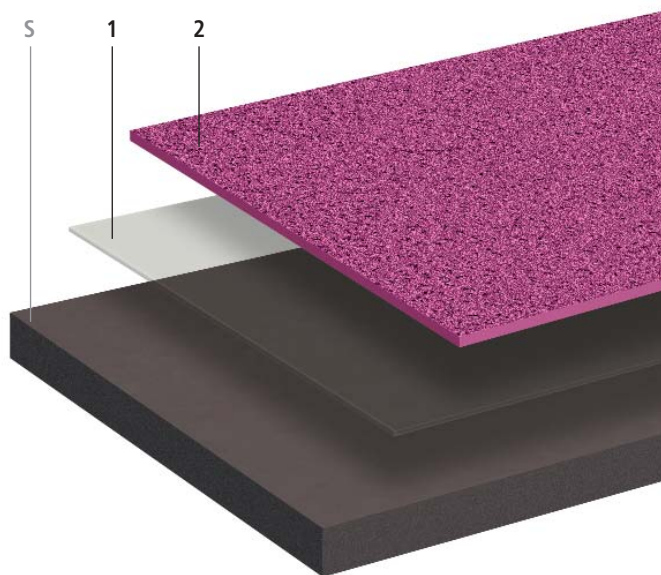
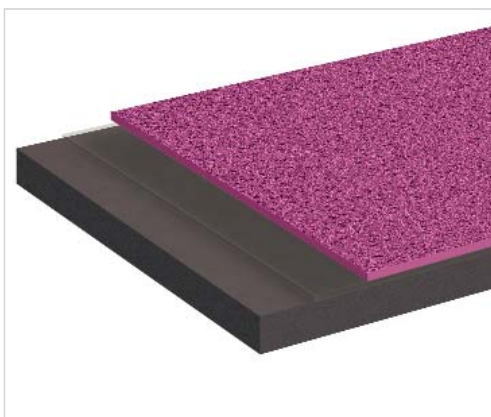
System Data Sheet

Heavy duty marking system for car park bays, lanes and deck signage

Properties

- Available in a wide range of colours
- High visibility
- Tough
- High abrasion resistance
- Cold applied
- Compatible with a wide range of substrates
- 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 DMS

System Details

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

Triflex DMS - Heavy duty marking system.

Applications

The system is suitable for the marking of car bays, lanes and for deck signage.

Substrate Preparation and Priming

Substrate	Preparation Notes	Priming	
			Triflex DMS
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.

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System Data Sheet

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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 M266 (3.5kg/m² min.) by trowel, draw box or extruder.

For external applications, an even sprinkling of reflective glass beads can be embedded into the wet Triflex Cryl M266.

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 M266

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 DMS

Model specification

Heavy duty marking system for car park bays, lanes and deck signage

M12 Surface Finishes

To be read with Preliminaries / General Conditions.

Surface Finishes reference

Triflex DMS

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

Generally

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

Substrate Assessment

Assess substrate in accordance with Triflex DMS System Data Sheet.

Substrate Preparation

Prepare substrate in accordance with Triflex DMS System Data Sheet.

Priming

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

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

Marking Application

Apply markings in accordance with Triflex DMS System Data Sheet.

Marking reference: Triflex Cryl M266.

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 DMS System Data Sheet is to be read as an integral part of this specification.

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)	69	53	50	48	49	48	47	47	45	42
Night visibility (mcd/m ² .lx)	253	344	306	304	268	241	206	158	156	153
Luminance factor (-)	0.72	0.71	0.71	0.7	0.7	0.69	0.69	0.69	0.66	0.65