Triflex Cold Plastic is a cold liquid applied, exceptionally fast curing, heavy duty marking system. Originally designed for highway use and used extensively on German autobahn, it has also been used for more than 20 years in the UK to add heavy duty white or coloured, thick layer, anti-skid markings to car parks, service yards and other heavily trafficked areas. Utilising the most advanced PMMA resin technology allows this 2 component solution to rapidly cure even at very low temperatures while removing the health and safety risks associated with hot applied thermoplastic solutions. The system far outperforms thermoplastic on concrete and is particularly suitable for HGV service decks and areas trafficked by trucks and fork trucks such as loading areas.

Triflex Cold Plastic is simple to apply, extremely hard wearing, highly tested, fully compatible with a wide range of substrates including direct application to asphalt, making it the ideal rapid solution for car parks, service areas, shopping centres, retail parks, airports, offices, roads, highways and other applications needing a quick turnaround, ultra-durable solution.

**System highlights**

- **Maximum colour and design possibilities**
  Create a design to meet your safety and aesthetic requirements with a wide range of standard colours and options for bespoke colours - refer to Triflex Cold Plastic Colour card.

- **Versatility and compatibility**
  Triflex Cold Plastic is fully compatible with a wide range of substrates, and far outperforms thermoplastic solutions on concrete and similar substrates.

- **Totally cold applied**
  There is no risk from hot works during installation as all Triflex materials are applied in a totally cold liquid form, curing to create a tough, durable solution that lasts.

- **Ultra rapid curing**
  Exceptionally fast curing, Triflex products enable areas to remain open during installation, limiting access restrictions and unnecessary disruption. Installation can be carried out all year round and the system still cures quickly at temperatures down to 0°C.

- **Extremely tough and durable**
  Triflex Cold Plastic is resistant to ponding water, road salts, petrol, diesel, brake fluid, engine oil, battery acid, de-icing and approved cleaning products. The system is able to withstand high mechanical loads including HGV traffic on service yards. Triflex Cold Plastic has been used on German Autobahn for more than 25 years, and has demonstrated an effective service life of more than 20 years in high space change retail car park environments in the UK without replacement.

- **Weather resistant**
  Triflex Cold Plastic is weather and UV resistant and will not break down when exposed for the long term to direct sunlight.

- **Safety**
  Triflex Cold Plastic does not contain solvents or isocyanates and poses no fire risk during installation.

**Application areas**

- Car park lines and arrows
- HGV service deck and yard markings
- Pedestrian crossings
- Give way signs
- Lettering / symbols
- Car park blacking out (covering existing markings)
- Rail platform markings
- Road and highway markings

**Compatible substrates**

- Asphalt including Hot Rolled Asphalt (HRA) and Stone Mastic Asphalt (SMA)
- Tarmac / Tarmacadam / Macadam
- Fresh asphalt including HRA and SRA
- Fresh Tarmac / Tarmacadam / Macadam
- Concrete
- Existing markings
- Pavers / brick paviers
- Granite
- Coatings (e.g. polyurethane, polyurea, polymethyl methacrylate, epoxy)
- Metals
### System build-up and consumptions

<table>
<thead>
<tr>
<th>Layer</th>
<th>Product</th>
<th>Consumption (1)</th>
<th>Overcoat / traffic (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primers (if required)</strong></td>
<td>Triflex Cryl Primer 222 / 287</td>
<td>0.40Kg/m² min.</td>
<td>45 minutes</td>
</tr>
<tr>
<td></td>
<td>Triflex Than Primer L 1K (Triflex Grund L 1K)</td>
<td>0.20L min.</td>
<td>20 - 30 minutes</td>
</tr>
<tr>
<td></td>
<td>Triflex Metal Primer</td>
<td>0.08 to 0.10L/m.</td>
<td>Approx. 30 minutes using spray can</td>
</tr>
<tr>
<td><strong>Marking</strong></td>
<td>Triflex Cold Plastic (Triflex Preco Cryl Kaltplastik)</td>
<td>4.00Kg/m² min.</td>
<td>15 - 20 minutes</td>
</tr>
</tbody>
</table>

(1) Minimum consumption assuming a smooth, even, non-absorbent substrate.
(2) The times stated are based on +20°C – the times will not be significantly extended at low temperatures.

### Approvals and test data

#### BSI UK Road Trials - BS EN 1436(1)
- Roll over class: P5(2)
- %HGV: 20%
- Wet Retroreflectivity: RW4
- Dry Retroreflectivity: R4
- Skid Resistance: S1
- Luminance Coefficient: Q4

(1) With drop on materials
(2) Roll over class P5 - Number of wheel passages 1,000,000 ± 20 %

#### BASf Certification(4) - German Federal Highway Research Institute
- 2003 1DK 07.09
- 2005 1DK 08.04
- 2006 1DK 07.12
- 2006 1DK 07.18
- 2009 1DK 10.18
- 2009 1DK 11.15
- 2011 1DK 04.09
- 2012 1DK 06.06
- 2012 1DK 06.07
- 2012 1DK 06.08
- 2012 1DK 06.09
- 2014 1VK 01.10
- 2015 1DK 05.10
- 2015 1DK 05.11
- 2015 1DK 05.19
- 2015 1DK 05.20
- 2015 1DK 07.18
- 2015 1DK 08.09
- 2016 1VK 10.09
- 2016 1VK 10.10
- 2016 1VK 10.13

(4) BASf Certification is based on various build-ups and configurations including agglomerates and drop on materials

#### PTV Values
- PTV (no drop on / wet) TRRL: Approx. 67(3)
- PTV (no drop on / wet) 4S: Approx. 63(3)

(3) PTV of 36+ is a low risk according to HSE guidelines
Colour Card

Triflex Cold Plastic

Notes: There may be slight variations in shade between actual colours and those shown below.
RAL colours are approximate.
Special colours can be produced to order.

---

Colours

1823 Traffic yellow  2009 Traffic orange  3020 Traffic red  3013 Tomato red  5017 Traffic blue  5012 Light blue  5015 Sky blue  6024 Traffic green

6018 Yellow green  7021 Black grey  7030 Stone grey  7043 Traffic grey  9005 Jet black  9010 Pure white

---

Find out more at triflex.co.uk
Product data sheet

**Triflex Cold Plastic (Kaltplastik)**

### Use

Heavy duty marking system.

### Properties

- Tough and durable
- Highly tested and proven in use
- Withstands high mechanical loads
- Suitable for car and HGV traffic
- Compatible with a wide range of substrates
- Excellent adhesion to substrate
- Totally cold liquid applied - no hot works
- Exceptionally fast curing even at low temperatures
- Rapid single process application
- Anti-skid
- Flexible

Available in a wide range of colours

Resistant to de-icing salts, petrol, engine oil, battery acid and brake fluid

Weather resistant (UV, IR etc.)

Solvent and isocyanate free

BAST approved

BSI Road Trial Certified BS EN 1436

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Triflex Cold Plastic (Triflex Preco Cryl Kaltplastik)</td>
</tr>
<tr>
<td>Catalyst</td>
<td>Triflex Catalyst</td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>Component</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Drum: 18.00Kg, IBC: 1350.00Kg</td>
</tr>
<tr>
<td>Catalyst</td>
<td>Bag: 0.10Kg, Bag: 10.00Kg, Bag: 25.00Kg</td>
</tr>
</tbody>
</table>

### Colour(s)

Refer to the Triflex Cold Plastic Colour card - other colours available.

### Application conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient and substrate</td>
<td>0°C to +35°C</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
</tr>
<tr>
<td>Relative atmospheric</td>
<td>Up to 95%</td>
</tr>
<tr>
<td>humidity</td>
<td></td>
</tr>
<tr>
<td>Dew point</td>
<td>3°C above dew point</td>
</tr>
</tbody>
</table>

### Substrate assessment / pretreatment / preparation

Remove existing markings, paint, finishes etc. incompatible with overlay by grinding or blasting, and abrade metals to create a key.

Ensure that the substrate is clean, dry and free from dust, laitance, grease, oil and any other contaminants and assess / pre-treat / prepare substrate in accordance with Triflex Specification.

### Compatible substrates / priming

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Primer required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt including HRA and SRA</td>
<td>No primer required</td>
</tr>
<tr>
<td>Tarmac / Tarmacadum / Macadam</td>
<td>No primer required</td>
</tr>
<tr>
<td>Fresh asphalt including HRA and SRA</td>
<td>Triflex Cyl Primer 222</td>
</tr>
<tr>
<td>Fresh Tarmac / Tarmacadum / Macadam</td>
<td>Triflex Cyl Primer 222</td>
</tr>
<tr>
<td>Concrete / pavers / brick pavious</td>
<td>Triflex Cyl Primer 287 / Triflex Primer L 1K</td>
</tr>
<tr>
<td>Existing markings</td>
<td>No primer required (subject to testing)</td>
</tr>
<tr>
<td>Granite</td>
<td>Triflex Cyl Primer 287 / Triflex Primer L 1K</td>
</tr>
<tr>
<td>Coatings (e.g. polyurethane, polyurea, polymethyl methacrylate, epoxy)</td>
<td>Subject to testing</td>
</tr>
<tr>
<td>Metals</td>
<td>Triflex Metal Primer</td>
</tr>
</tbody>
</table>

### Initial resin mixing / decanting

**Drums:**

1. Thoroughly mix the resin in the drum with a slow speed mixer until the resin achieves a uniform consistency;
2. If required, decant a measured weight of resin into a suitable container.

**IBCs:**

1. Prior to use refer to and follow guidance in Triflex Container Handbook;
2. Thoroughly mix the resin in the IBC using the ATEX certified mixer until the resin achieves a uniform consistency;
3. Disconnect mixer and allow a minimum 5 minutes before decanting a measured weight of resin into a suitable container. Do not decant material whilst mixer is running.

### Mixing

<table>
<thead>
<tr>
<th>Temperature</th>
<th>0°C to +15°C</th>
<th>+15°C to +35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalyst to resin %</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Catalyst per 18.00Kg drum of resin</td>
<td>0.40Kg</td>
<td>0.20Kg</td>
</tr>
<tr>
<td>Catalyst per 1350.00Kg IBC of resin</td>
<td>27.00Kg</td>
<td>13.50Kg</td>
</tr>
</tbody>
</table>

1. Measure the appropriate weight of catalyst for the weight of resin and the temperature;
2. Add the catalyst to the pre-mixed / decanted resin;
3. Thoroughly mix the resin and catalyst using a slow speed mixer for a minimum 2 minutes until the catalyst has been evenly distributed and leave for a minimum of 1 minute to allow the catalyst to fully dissolve;
4. Re-mix and use the mixed material within the pot life.
Product overview | Triflex Cold Plastic | 04/2019

**Application method**
Shoe / draw box / mould / hand guided machine / automated 2K extruder / trowel with masking.

**Consumption / density**
Consumption: 4.00 Kg/m² min. 
Density: approx. 1.9 g/cm³

*Note:* Consumption based on smooth, even, non-absorbent substrate.

**Pot life (at 20°C)**
Approximately 5 - 10 minutes

*Note:* Times will be slightly increased at lower temperatures and slightly reduced at higher temperatures.

**Curing time (at 20°C)**
Approximately 15 - 20 minutes

*Note:* Times will be slightly increased at lower temperatures and slightly reduced at higher temperatures.

** Interruptions during works**
Use Triflex Cleaner to clean and re-activate the transition area. Overlay after Triflex Cleaner has evaporated and a minimum 20 minutes / maximum 60 minutes after application.

**Tool cleaning**
Clean tools with Triflex Cleaner.

**Storage / shelf life**
Store unopened in a cool, dry, well ventilated place above freezing, out of direct sunlight and in the original container.

Shelf life if stored correctly: minimum 12 months.

**Health and safety**
Refer to Safety Data Sheets.

**Disposal information**
Refer to Safety Data Sheets for recommended EWC waste codes.

**Notes**
The advice we provide on the application of our products is based on extensive development work and many years of experience, and is given to the best of our knowledge. 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 each case. Triflex reserve the right to make alterations in keeping with technical developments or improvements.

Non-Triflex products must not be used with Triflex systems.

Only the most recent version of this data sheet is valid.