Product overview
Coating / marking system

**Triflex Friction Plastic**
Triflex Preco Cryl Reibeplastik

Triflex Friction Plastic is a cold liquid applied, exceptionally fast curing, anti-skid coating and marking system used primarily to add a heavy duty, coloured, surfacing finish. Originally designed for highway use and used extensively on the German autobahn, the system can be applied to external car parking areas, walkways and cycle lanes. The 2 component system is easy to apply and contains no solvents or isocyanates, being totally cold applied no hot works are required throughout the installation, removing health and safety risks usually associated with hot applied thermoplastic and other solutions.

Triflex Friction Plastic is based on the most advanced PMMA resin technology and is compatible with a wide range of substrates. It also rapidly cures even at very low temperatures making it the ideal solution all year round for shopping centres, retail parks, airports, offices and cycle lanes which require a solution that can be installed quickly with minimal disruption.

**System highlights**

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

**Tough and durable**
Triflex Friction Plastic is highly resistant to long term traffic loads, is unaffected by ponding water and is resistant to road salts, petrol, diesel, brake fluid, engine oil, battery acid, de-icing and approved cleaning products.

**Highest levels of anti-skid**
The inherent high level of skid resistance makes this product the ideal solution for areas prone to slips and requiring maximum levels of anti-skid including pedestrian walkways, footpaths and cycle lanes.

**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, extremely durable solution that lasts.

**Single process application**
Installation time and costs are significantly reduced when compared to multi-coat and broadcast systems.

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

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

**Solvent and isocyanate free**
Triflex Friction Plastic does not contain solvents or isocyanates and poses no fire risk during installation.

**Application areas**
Driving lane coating
Walkways
Parking bay coating
Pedestrian crossings
Blacking out (covering existing coatings)
Cycle lanes / ways / routes
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 pavaviours
- 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</th>
<th>Overcoat / traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primers (if required)</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 Approx. 60 minutes using roller or brush</td>
</tr>
<tr>
<td>Marking / coating</td>
<td>Triflex Friction Plastic (Triflex Preco Cryl Reibeplastik)</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.

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### Approvals and test data

**BAST Certification**<sup>1</sup> - German Federal Highway Research Institute

<table>
<thead>
<tr>
<th>Year</th>
<th>Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>1DK 03.06</td>
</tr>
<tr>
<td>2003</td>
<td>1DK 07.08</td>
</tr>
<tr>
<td>2006</td>
<td>1DK 07.09</td>
</tr>
</tbody>
</table>

<sup>1</sup>BAST Certification is based on various build-ups and configurations including agglomerates and drop on material

### PTV Values

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTV (no drop on / wet) TRRL</td>
<td>Approx. 79*</td>
</tr>
<tr>
<td>PTV (no drop on / wet) 4S</td>
<td>Approx. 66*</td>
</tr>
</tbody>
</table>

*PTV of 36+ is a low risk according to HSE guidelines

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[Image of Triflex Friction Plastic application process]

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Product overview | Triflex Friction Plastic | 04/2019

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Colour Card

Triflex Friction 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.

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

## Triflex Friction Plastic (Reibeplastik)

### Use

Anti-skid coating and marking system.

### Properties

- Tough and durable
- Highly tested and proven in use
- Withstands high mechanical loads
- Suitable for car and HGV traffic
- Very high levels of anti-skid
- Available in a wide range of colours
- Compatible with a wide range of substrates
- Totally cold liquid applied - no hot works
- Excellent adhesion to substrate
- Rapid single process application
- Exceptionally fast curing even at low temperatures
- Resistant to de-icing salts, petrol, engine oil, battery acid and brake fluid
- Weather resistant (UV, IR etc.)
- Solvent and isocyanate free
- BAST approved

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Triflex Friction Plastic (Triflex Preco Cryl Reibeplastik)</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</td>
</tr>
<tr>
<td>Catalyst</td>
<td>Bag: 0.10Kg</td>
</tr>
<tr>
<td></td>
<td>Bag: 10.00Kg</td>
</tr>
<tr>
<td></td>
<td>Bag: 25.00Kg</td>
</tr>
</tbody>
</table>

### Colour(s)

Refer to the Triflex Friction 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 temperature</td>
<td>+0°C to +35°C</td>
</tr>
<tr>
<td>Relative atmospheric humidity</td>
<td>Up to 95%</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 / Tarmacadam / Macadam</td>
<td>No primer required</td>
</tr>
<tr>
<td>Fresh asphalt including HRA and SRA</td>
<td>Triflex Cryl Primer 222</td>
</tr>
<tr>
<td>Fresh Tarmac / Tarmacadam / Macadam</td>
<td>Triflex Cryl Primer 222</td>
</tr>
<tr>
<td>Concrete / pavers / brick pavours</td>
<td>Triflex Cryl Primer 287 / Triflex Than 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 Cryl Primer 287 / Triflex Than 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

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.

### 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>
</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.

### 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. 1.90 g/m³

**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

Triflex Cleaner to clean and reactivate 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.