



Advanced Liquid Membrane Systems



WeTraffic





Color-enhanced road surfaces (FGSO)

The current trend is for color-marked road surfaces (i.e. „Farbliche Gestaltung von Strassenoberflächen“ FGSO) to be used increasingly as a means of defining special zones and to enhance the appearance of road surfaces or areas. It is now very easy to color-mark surfaces with shapes, lines, numbers or letters.

FGSO is suitable as a color-highlighted transition to areas with a speed limit of 20 mph / 30 kmh so that road users realize they are entering a traffic-calmed zone. In the same way that FGSO specifically influences driving behaviour (shown here is an optical narrowing of the road), road users' lane-keeping and the safety of pedestrians and cyclists can be considerably improved.



Skid-resistance and safety for all road users

PMMA-based products for color-enhanced road surfaces have been developed to meet stringent traffic requirements. Key aspects include abrasion resistance and constant maintenance of grip throughout the product's life. The complex filler mix ensures that stresses imposed by trucks and cars are effectively absorbed. High-quality raw materials guarantee compliance with the specified skid resistance of SRT > 65. Test certificates confirm the high performance of FGSO products.



Proven grip, even on permanently busy roundabouts

The number of concrete roundabouts on Swiss roads is steadily increasing. However, concrete suffers from the abrasion generated by rolling traffic. As a result, the skid resistance of these surfaces declines. We have addressed this particular problem and are now able to offer PMMA-based products that deliver durable, highly skid-resistant surfacing on concrete for roundabouts and bus bays.



WeTraffic for road safety

WeTraffic products provide a high degree of safety. The durability of the skid-resistant properties and the reliability of application are strengths inherent in the system. The advantages at a glance:



Approved system



The FGS0 system WeTraffic has been tested and approved according to SN 640512-4 and meets the skid-resistance requirements for the system's entire service life. The WeTraffic marking system has been tested on a rotary wear simulator (AETEC, S.A., Madrid) in compliance with DIN EN 13197:2011-12 and meets the requirements for traffic class P7 (4 million rollovers) in accordance with DIN EN 1436:2009.



Excellent skid resistance (SRT > 45/65)

WeTraffic surfacing products can be relied on to meet the SRT specification of > 45/65. The special-purpose, highly abrasion-resistant additives ensure that these values are maintained throughout the product's service life.



Short curing periods

WeTraffic products are rainproof and weather-protected after just 30 minutes. As a result, the product can be installed very reliably with good control of weather conditions. The work can often be completed in one go. The surfacing is fully serviceable after approx. 2 hours. After this interval, the coated area can be reopened to traffic.



Outstanding application properties even at low temperatures

WeTraffic systems are also eminently suitable for application at lower temperatures. Perfect application of the surfacing can be guaranteed even at sub-zero temperatures.



Plasticizer-free

All WeTraffic products are formulated to be semi-elastic and plasticizer-free.

Consequently the materials do not become brittle with time. The elasticity is perfectly matched to the behavior of the bituminous substrate (asphalt).

The most important principles

The information in this document applies to public highways and byways as well as to other areas subject to road traffic regulations (e.g. public spaces).

Statutory basis

Swiss standard SN 640 214 „Color marking of road surfaces“ published by the Swiss Association of Road and Traffic Experts on 01 August 2009

Swiss standard SN 640 241 „Pedestrian traffic / pedestrian crossings“

Source: Construction, Traffic and Energy Directorate of Canton of Bern, Bern / BSIG no. 7/761.151/4.2



WeTraffic - Textured Surfacing FGS0

WeTraffic is a PMMA-based coating (PMMA = polymethyl methacrylate) that was developed specifically for use on public roads, plazas and other traffic zones. The product meets the requirements of Swiss standard SN 640 214 FGS0 (SRT > 65).



Superior skid resistance and grip > SRT 65 (SN 640 214 FGS0)

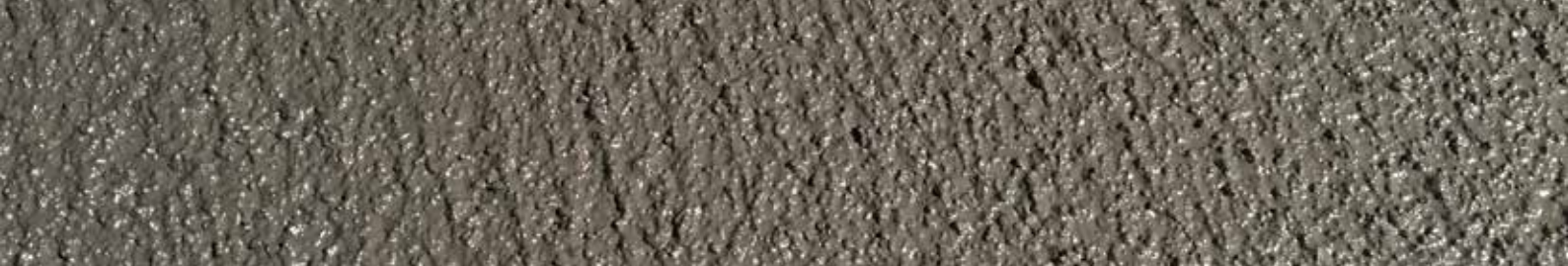


Highly abrasion-resistant



Resistant to mechanical stress

Layer	Product	Consumption
Layer thickness	approx. 2 - 3 mm	
Substrate	Rolled and mastic asphalt, concrete in conjunction with a primer	
Wearing layer	WeTraffic Textured Surfacing FGS0	3,50 - 4,50 kg/m ²



WeTraffic - Textured Surfacing High Performance

WeTraffic is a highly abrasion-resistant and extremely skid-resistant PMMA-based (PMMA = polymethyl methacrylate) surfacing that was developed specifically for application to concrete roundabouts, in front of pedestrian crossings (to reduce the braking distance), motorway entries and exits as well as other traffic zones. Particles mixed into the product to control layer thickness guarantee that SRT levels are maintained throughout the system's service life.



Extreme skid resistance and grip
> SRT 65 (SN 640 214 FGS0)



Maximum abrasion
resistance



Resistant to
mechanical stress

Layer	Product	Consumption
Layer thickness	approx. 3 - 4 mm	
Substrate	Rolled and mastic asphalt, concrete in conjunction with a primer	
Wearing layer	WeTraffic Textured Surfacing High Performance	4,50 - 6,00 kg/m ²

WeTraffic - Rolled Surfacing

WeTraffic is a versatile, thin-layer PMMA surfacing for cementitious and bituminous substrates. WeTraffic is abrasion-resistant and skid-resistant (SRT > 45). The product is applied without a primer on asphalt surfaces. The pre-filled and pigmented resin can be used as a priming filler, topping receiver and covering layer on surfaces subjected to pedestrian and vehicular traffic. The skid-resistant properties can be increased by adding grip agents. WeTraffic is ideal for marking out pedestrian and cycle paths, parking bays, forecourts, driveways and access areas in front of rows of shops.



Superior skid resistance and grip > SRT 45



Variable roughness



Resistant to mechanical stress

Layer	Product	Consumption
Layer thickness	approx. 1 - 2 mm	
Substrate	Rolled and mastic asphalt, concrete in conjunction with a primer	
Wearing layer	WeTraffic Rolled Surfacing	0,80 - 2,00 kg/m ²

WeTraffic - Roller-applied Markings

WeTraffic is an innovative road marking system. Due to the special fillers that deliver the required skid resistance (SRT > 45, standard SN 640 241), additional skid-resistant agents can be dispensed with. WeTraffic is topped with reflective beads. The WeTraffic marking system has been tested on a rotary wear simulator (AETEC, S.A., Madrid) in compliance with DIN EN 13197:2011-12 and meets the requirements for traffic class P7 (4 million rollovers) in accordance with DIN EN 1436:2009.



Source: AartiGroup GmbH



Maximum anti-skid



Maximum abrasion



Easy and fast application

Layer	Product	Consumption
Layer thickness	approx. 3 - 4 mm	
Substrate	Rolled and mastic asphalt, concrete in conjunction with a primer	
Wearing layer	WeTraffic Roller-applied Markings (topped with reflective beads)	3,00 - 3,50 kg/m ²



WeTraffic | Spittel Roundabout, Suhr AG



WeTraffic surfacing repairs

Potholes in asphalt surfaces or manhole covers not level with the road are common occurrences. PMMA-based mortars can be used to effect permanent repairs in record time without additional equipment, such as melting pots, burners, rollers or other specialised tools.



WeTraffic - Repair Mortar, coarse, for asphalt

is a rapid-curing, coarse-grained repair and leveling mortar used to fill and even out major faults and cavities in the substrate. Its properties make it ideal for use as a repair mortar on roads. The product is cold-applied and does not require preheating etc..



WeTraffic - Repair Mortar, fine, for asphalt

is a rapid-curing, fine-grained repair and leveling mortar used for filling and smoothing over faults and cavities in the substrate. Its finely tuned, thermoplastic properties make it ideal for use on bituminous road substrates. WeTraffic is applied without an additional primer. The product can be leveled out to almost zero thickness to make it flush with the road surfacing.



Wecryl - Concrete Repair Mortar

is a fast-curing, high-strength concrete repair mortar used to make good areas on damage on concrete elements in engineering structures or on concrete road surfacing. Its special properties, such as high compressive strength and tensile strength in bending, make Wecryl ideal for concrete subjected to severe stresses. The product is highly resistant to frost and de-icing salts, making it more resilient and stable than concrete.



Steel road plates and trench covers

Trenches have to be dug to upgrade underground infrastructure on roads. These trenches must be covered with steel road plates so that the roads can continue to be used. This does not hinder the flow of traffic. However, the smooth steel road plates do not provide sufficient grip. When these are traversed, vehicles are more likely to skid when the brakes are applied, and pedestrians are more likely to slip, but this is preventable.

Safety achieved in three hours

The highly skid-resistant surfacing products (SRT > 65) manufactured by allow a coating with high mechanical resistance to be applied in just a few steps. With rapid-curing surfacing resins, steel road plates can be coated and be operational within three hours, providing immediate skid and slip resistance for all road users. This can also be done directly on the construction site. It also means that road plates can be re-coated quite easily. The coating can be applied in practically any RAL shade.

Skid resistance according to VSS SN 640 511b

The use of steel road plates with improved grip is already specified by most road owners. The steel road plates (trench covers) should have a skid-resistant coating on the exposed face [Swiss standard [13] VSS SN 640 511b]. Products have been tested by the Viatec test institute in accordance with SN 640 512-4 and meet the specified requirements for FGSO markings as set out in Swiss standard SN 640 214.

The grip of textured or roughened steel road plates decreases with time. Regular site inspections and subsequent identification of poor grip on trench covers should be anticipated and remedied by contractors.





Special-purpose applications on roads



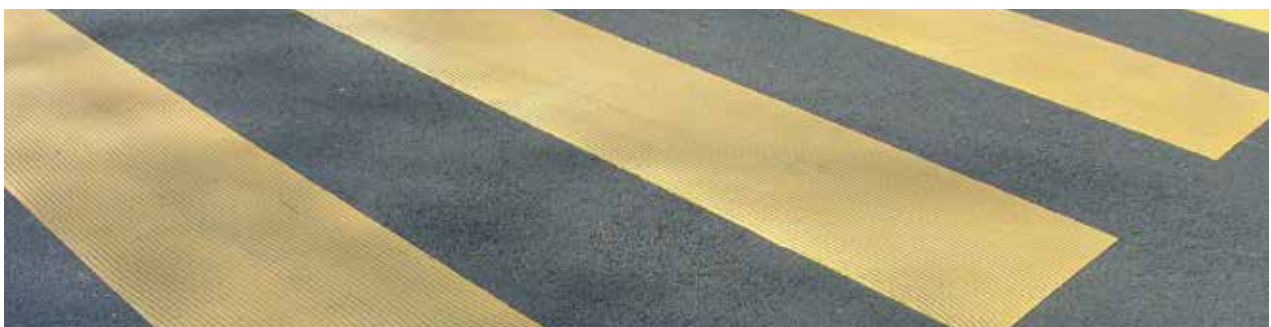
WeTraffic - Repair Mortar, coarse, and WeTraffic Repair Mortar, fine



WeTraffic - Textured Surfacing FGS0



WeTraffic - Textured Surfacing High Performance



WeTraffic - Roller-applied Markings



WeTraffic | Motorway entry, Crissier VD



Advanced Liquid Membrane Systems

WeTr  ffic

The logo for WeTraffic features a stylized green traffic cone with a white road surface and a white road line, positioned between the words "WeTr" and "ffic".

ALT Global, LLC.
12 Dwight Place, Fairfield, NJ 07004
Tel: 973 287-6158
Fax: 973 287-6168
Email: solutions@ALTglobal.com
www.ALTglobal.com