

## Plex Roadmark Area

### DESCRIPTION:

Plex Roadmark Area is a fast, 2-component, thixotropic methacrylate coating used for durable and permanent cold plastic road markings like bicycle lanes, parking spots or other larger area's.

It's applied between 1 and 3 mm and requires no heating prior to application. The Plex Roadmark Area is suitable for warm and cold climates and has an excellent hiding power and high luminance and reflectivity when glass beads are added. Excellent resistance to bleeding on bitumen substrates. The thixotropic behavior of the coating makes for a very good sag resistance that allows for excellent layer build and coverage on new asphalt.

### APPLICATION:

Mix the Plex Roadmark Area briefly before weighing it out. Add the recommended amount of catalyst and mix thoroughly for 1 minute.

To apply use a simple trowel, squeegee and/or roller. Put the masking tape along the outside of the area that needs to be coated.

Roughly calculate the amount of compound required based on the square meters of the area. The amount of hardening powder required is adapted to the substrate temperature according to the hardening table shown above and mixed for half a minute (in warm temperatures) to one minute (in cold temperatures).

Pour out the material and apply by trowel or squeegee and then use a roller. Remove the tape before the marking has been fully cured so that clear and sharp edges are formed.

To increase the coarseness / roughness up to 30% of aggregate / crushed glass etc. can be mixed into the resin prior to adding catalyst. It is also possible to broadcast the applied wet surface with aggregate for very rough high friction surfaces.

Ensure sufficient ventilation during installation of the floor. In enclosed spaces, mechanical ventilation with at least 7 air changes per hour is mandatory.

### CONSUMPTION:

Coating system	Product	Consumption
Primer	Plex 1120 on Concrete	0,5 – 0,8 kg/m <sup>2</sup>
<u>Wearing Course</u>	Plex Roadmark Area	<u>1,5 kg/m<sup>2</sup>/mm</u>

### CATALYST QUANTITY:

Temp [C°]	Catalyst [%]	Potlife [min]	Cure time [min]
0 - 5	4	20	60
5 - 10	3	25	55
10 - 20	2	17	35
20 - 30	1.5	14	30

### TECHNICAL PROPERTIES:

Excellent structure formation from roller  
 Resistant to weathering  
 Suitable for high and low temperatures  
 UV-stable / Colourfast  
 Good elasticity and tensile strength  
 Rapid curing in about 30 min at 25°C  
 Excellent abrasion resistance  
 Low dirt retention

Density<sup>2</sup> +/- 1,5 g/cm<sup>3</sup>

Processing time 20°C [min] +/- 15

Viscosity [mPa.s]<sup>1</sup> 2500-3000

Shore D hardness<sup>3</sup> 45-55

<sup>1</sup> Brookfield DVIII SPINDLE LV3 30RPM

<sup>2</sup> ISO 2811-1 / 23°C / 50% R.H.

<sup>3</sup> DIN 53505 / 14 days / 23°C / 50% R.H.

### PACKAGING:

Can packing: 20 kg

Metal drum: 180 kg

### FORM:

Component A: Liquid, coloured

Component B: Dry, white powder

**For a single project, always order all the material at once.**

### SHELF LIFE:

Up to 6 months after the production date if kept in the original, sealed, unopened and undamaged packaging and stored dry between +5 °C and +30 °C.

## SUBSTRATE PREPARATION:

### Concrete Road Surfaces

Concrete needs to be pre-treated by shot blasting, high-pressure water blasting and primed with Plex 1120.

### Asphalt Road Surfaces

Remove incompatible paint systems, sweep surface to remove dust and debris. Depending on the amount of flux oils contained in new bituminous surfaces, these may need to be weathered up to 8 weeks before final application. Especially on hot days sweating of flux oils from fresh bitumen occurs often. If cold plastic material is applied too early on fresh asphalts the cured marking can be peeled off. In case of doubt we recommend applying a test stripe and try to peel it off after curing (30 min). If peeling off is possible then, hot ambient temperatures should be avoided and or the road surface needs additional time to be weathered.

## APPLICATION CONDITIONS:

Surface temperature:	Minimum 0°C, maximum +35°C
Ambient temperature:	Minimum 0°C, maximum +35°C
Relative air humidity:	Maximum 75% R.H.
Dew point:	Beware of condensation!

The material and substrate should be at least 3°C higher than the dew point.

## REMARKS:

When applying the material, ensure the correct personal protective equipment is worn.

Prior to use, Plex Roadmark CPS must be carefully stirred to achieve a uniform distribution of agents contained in the product.

Mixed materials should be processed immediately. Don't work from the bucket, empty entire contents. No direct sunlight during application. And avoid strong air currents such as drafts.

Other topcoats than based on MMA should not be applied on Plex systems as cracking and delamination can occur.

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## HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

## VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

**For more information about the Eurostep products or for technical advice, please contact:**

Eurostep Poland Sp. z o.o.  
Tymiankowa 37/39  
95-054 Ksawerów  
Poland

Tel.: +48 609 222 050

**[www.Eurostep.pl](http://www.Eurostep.pl)**