

Plex Roadmark Area

DESCRIPTION:

Plex Roadmark Area is a fast, 2-component, thixotropic methacrylate coating used for durable and permanent cold plastic roadmarkings 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.

CONSUMPTION:

Coating system	Product	Consumption
Primer	Plex 1120 on Concrete	0,500 - 0,800 g/m ²
<u>Wearing Course</u>	Plex Roadmark Area	<u>1,5 kg/m²/mm</u>

APPLICATION CONDITIONS:

Surface temperature:	Minimum 5°C, maximum +30 °C
Ambient temperature:	Minimum 5°C, maximum +30 °C
Relative air humidity:	Maximum 75% R.H.
Dew point:	Beware of condensation!

The temperature of the substrate and the non-hardened material must be at least 3°C higher than the dew point to prevent the risk of condensation formation.

SUBSTRATE PREPARATION:

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: +/- 1,5 g/cm ³
Processing time 20°C (min) +/- 15
Viscosity (mPa.s) ¹⁾ 2500-3000
Shore D hardness 45-55

¹⁾ Brookfield DVIII SPINDLE LV3 30RPM

PACKAGE:

20 kg metal bucket
180 kg metal drum

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 PREPRATION:

Concrete Road Surfaces

Concrete needs to be pre-treated by milling, 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.

MIXING:

When opening the container, you will notice a clear layer on the surface of the resin. This is paraffin, it must be well incorporated by electrical mixer. Now add correct amount of PLEX 192 based on temperature and mix thoroughly for 1 minute.

APPLICATION:

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.

IMPORTANT NOTES:

- Low temperatures slow down the curing process..
- Ensure adequate ventilation
- Avoid strong air currents such as drafts.
- No direct sunlight during application.
- Other topcoats than based on MMA should not be applied on Plex systems as cracking and delamination can occur.
- Don't work from the bucket, empty entire contents.
- Always consult with technical department if unsure.
- Refer to product MSDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.

CURING TIME:

Potlife at 20 °C	Aprox 15 min
Hardened at 20°C	30 min

Check the moisture content of the surface, the R.H. and dew point before applying. It is recommended to use the spraying method to apply the material.

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.

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