

Plex Roadmark CPS

DESCRIPTION:

Plex Roadmark CPS is a fast, 2-component, methacrylate screed with a combination of fillers, anti-skid aggregates and glass beads for reflectivity. It is applied between 1,5 – 3 mm thickness by means of trowel, draw box or hand or automatically driven cold plastic extrusion machines.

The screed can be used for durable and permanent cold plastic road markings like markings at junctions and crossings, stop lines, direction arrows and center markings on freeways and highways and is also suitable for safety and/or structured road markings.

Plex Roadmark CPS is suitable for warm and cold climates and requires no heating prior to application and has a very good sag resistance allowing for excellent layer build and coverage on new asphalt.

CONSUMPTION:

Coating system	Product	Consumption
Primer	Plex 1120 (only on concrete)	0,500 – 0,800 g/m ²
<u>Wearing Course</u>	Plex Roadmark Area	<u>1,85 kg/m²/mm</u>

APPLICATION CONDITIONS:

Surface temperature:	Minimum 5°C, maximum +40 °C
Ambient temperature:	Minimum 5°C, maximum +35 °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 hiding power
Resistant to weathering.
Suitable for high and low temperatures.
High luminance and reflectivity
Excellent resistance to bleeding
Rapid curing in about 30 min at 25 °C
Excellent abrasion resistance
Low dirt retention
Density: +/- 1,85 g/cm ³
Processing time 20°C (min) +/- 15
Viscosity (Pa.s) ¹⁾ 10 - 12
Shore D hardness 50-60

¹⁾ Brookfield DVIII SPINDLE LV4 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:

Application by trowel

Roughly calculate the amount of compound required based on the square metres 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 the screed out and smooth it without leaving trowel marks.

Application by drawbox

Prepare the screed as previously instructed. Instead of using a trowel, use a steel draw box, similar to those used for hot-melt materials. Place a strip of masking tape at the starting point of the marking and align the draw box with it. Fill the draw box with the liquid cold plastic, already mixed with the hardener, and pull it along a guide (such as a straight plank, roof batten, or aluminum rail) up to the endpoint. To create an end line, you can use another piece of masking tape, or place a metal sheet to catch any excess material from the applicator head.

Drop On Beads

Drop on beads need to be added immediately after applying Plex Roadmark CPS onto the substrate. Due to its paste-like consistency especially small beads are a good choice for easy embedding. Please make sure that the beads are embedded into the cold plastic mass to about 50 %, to maximize retro reflection as well as bead-adhesion.

A decisive factor for bead adhesion is the proper bead coating. Therefore, only for our own beads we can give a guaranty for a good bead-adhesion.

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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