Stin-Mark P2 antiskid durable marking system / Data Sheet
The advantages of Two-Component Cold Plastic Pavement Markings.

The growing number of motor vehicles using our roadways today has significantly increased the strain placed on road materials and especially on traffic lane markings. To prolong the lifespan of a pavement marking we searched for a material that would provide superior abrasion resistance while maintaining good adhesion and reflectivity and we select the P2 System.

The P2 System was developed based on the use of methyl methacrylate resins, a worldwide proven system. These resins are the key components used in cold hardening plastic road markings.

DURABILITY
Variable according to the application. An average of 4 to 6 times more durable compare to conventional traffic paint.

RÉTRORÉFLECTIVITY
Retroreflectivity with compatible glass bead for the P2 System.

CURING
The product will harden within 20 minutes at 20°C keeping traffic disruptions to a minimum.

BONDING
The product will bond well to both asphalt and concrete surfaces as well as any existing clean, viable painted markings (solvent based paint should be wear at 60% minimum otherwise the surface should be scrarify).

FLEXIBILITY
Flexible enough to move with the road surface.

CHEMICAL AND UV RESISTANT
The product will retain its brightness and elasticity regardless of road salts, oils or intense sunlight.

REPAIRS
The product will bond with old or partially worn markings. Just brush the old marking clean and apply new material over the top.

GENERAL CHARACTERISTICS

The material shall consist of methyl methacrylate binder resins combined with inert fillers and pigments. Powdered dibenzoyl peroxide (50 % purity) shall be introduced in the field. The wet marking could be top dressed with reflective glass beads. The product could be mixed with a compatible aggregate.

PHYSICAL PROPERTIES

Thickness	1mm (40 mils)
Pot Life (20°C, 1.5% catalyst)	15 minutes
Cure Time (20°C, 2% catalyst)	45 minutes
Adhesion	Minimum 250 psi or substrate failure ASTM D4541
VOC	< 150g/L
Hardness	Minimum 50 D after 24 hours ASTM D2240
Chemical Resistance	Cured markings shall be resistant to calcium chloride, sodium chloride, fuels, oils and ultra violet light effects.
Aggregates Hardness	>6 Mohs
Surface Skid Resistance	>80 BPN (ASTM E303-93)
Glass Beads	With compatible coating (silane)

STORAGE

Store in the original container at temperatures not exceeding 30°C. Protect against physical damage. Do not store in direct sunlight. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Ensure the storage area is well ventilated. Please read the MSDS.

APPLICATION TEMPERATURE

Air and pavement shoud be between 5°C à 40°C and above the dew point. Relative humidity level should be less than 75%. For concrete, the humidity of the surface should be less than 10% and the surface should be prepare adequately for a good adhesion (Concrete must be at least 6 months old with no traces of the curing compound left in it).

AGGRÉGATES

Specially designed to be embedded at a minimum level of 80% into the methyl methacrylate resins upon installation and the mix ratio is 1 to 1 in volume.

GLASS BEADS

Compatible to methyl methacrylate resin, embedded at 60% into the product and apply at a rate of 9lbs per gallon by gravity of 6lbs per gallon if spray.

HARDENING POWDER

Add the quantity of hardener based on the temperature.

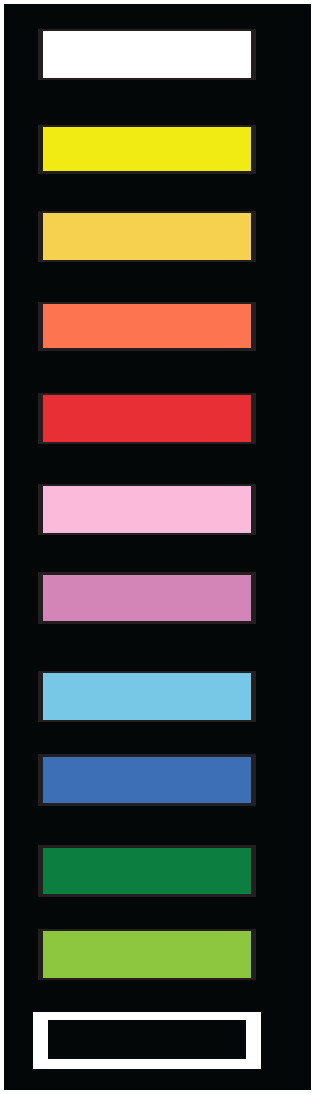
Temperature °C	Hardener % by Wt.	Pot Life (minutes)	Cure Time (minutes)
10	3	15	55
20	1.5	10	45
30	0.7	15	40

CLEANING

With acetone or toluene if the product is not dry.

COLORS

Standard colors indicated, other colors available upon request.



Ultra Bright White (standard)

Bright Yellow

Traffic Yellow (standard)

Construction Orange

Red (standard)

Pink

Violet

Handicap Blue

Dark Blue (standard)

Dark Green

Bike Path Green (standard)

Black

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