PLASTILINE® 1C Solventborne CAP

Solvent-based, adhesion-promoted road marking paint for concrete, asphalt & paving — high solids, fast drying, high sheen | 1K, ready to use

1K	76 %	55 %	5–15 min	165–330 µm
SINGLE-COMPONENT	MASS SOLIDS	VOLUME SOLIDS	DRY @ 20–40 °C	DFT PER COAT

DESCRIPTION

PLASTILINE® 1C Solventborne CAP is a one-component, high-solids, solvent-based, adhesion-promoted road marking paint for concrete, asphalt and paving. It dries fast for rapid return to service and delivers very high coverage with a high-sheen finish.

The high pigment load gives very high coverage and high luminance, while the high sheen produces a more dirt-resistant marking that stays brighter for longer. Applied with or without drop-on reflective glass beads.

PLASTILINE® 1C Solventborne CAP can be applied directly to well-prepared paved and curb surfaces. For enhanced performance a primer may be used — Epoxy WB Concrete Primer, PLASTILINE® Dust Fixing Primer SB or PLASTILINE® Dust Fixing Primer WB.

INTENDED USES

- Interlocking bricks, paved roads, parking lots, curbs and paved islands.
- Airport concrete aprons — with or without reflective glass beads.
- Brick and curb surfaces where enhanced adhesion is required without a full primer build on well-prepared substrates.
- Line, area and symbol marking applied by brush, roller, airless or air-atomising equipment.

SYSTEM PRODUCTS

- **Primers (optional):** Epoxy WB Concrete Primer, PLASTILINE® Dust Fixing Primer SB or PLASTILINE® Dust Fixing Primer WB — for enhanced performance on porous or dusty substrates.
- **Drop-on reflective glass beads:** PLASTILINE Reflective Glass Beads EXTRA 125-850 AP or EXTRA 125-850 UC — minimum 400 g/m².
- **Thinning & clean-up:** Solvent EA — approx. 2 % for spray optimisation; Solvent EA only for flushing and equipment washing.
- **Application equipment:** Brush, roller, airless or air-atomising spray equipment.

FEATURES & BENEFITS

Enhanced adhesion to paved & curb surfaces. Adhesion-promoted formulation bonds to interlocking brick, concrete, asphalt and curbing on well-prepared surfaces.

Very high coverage. High pigment load delivers 0.30–0.60 Lt/m² at 165–330 µm DFT in a single spray coat.

Fast drying, fast return to service. Dry in 5–15 minutes at 20–40 °C and 20–50 % RH — lanes and bays reopen sooner.

High sheen, high luminance. The high-sheen finish is more dirt resistant, keeping markings cleaner and brighter for longer.

Good bead embedment & retention. Holds drop-on reflective glass beads at the recommended 50–60 % embedment for reliable retro-reflectivity.

Excellent abrasion & alkali resistance. Stands up to traffic wear and to alkaline concrete and cementitious substrates.

Moisture tolerant. Tolerant of residual substrate moisture within the stated ≤4 % limit — fewer lost weather windows.

Standard colours plus full RAL tinting. White, yellow, red and black held as standard, and tintable to RAL colours. Colour complies with SANS 731-1 in accordance with BS 381 C and EN 1871 chromaticity co-ordinates Table 2.

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TECHNICAL DATA

PHYSICAL & COMPOSITION	
Product type	One-component (1K), solvent-based road marking paint — high solids, adhesion promoted.
Colour range	Standard colours: white, yellow, red and black. Tintable to RAL colours on request.
Colour standards	Complies with SANS 731-1 in accordance with BS 381 C. In accordance with EN 1871 chromaticity co-ordinates, Table 2.
Finish	High sheen
Viscosity	80–90 KU
Density (approx.)	1.4 kg/Lt (typical for white)
Mass solids	76 %
Volume solids	55 %
APPLICATION	
Method of application	Brush, roller, airless or air-atomising equipment
Number of coats	1 coat by spray
Mixing & thinning	Supplied ready for processing — mix well before use. Thinner is generally not required; approx. 2 % Solvent EA may be added to optimise spray properties.
Wet film thickness	300–600 µm
Dry film thickness	165–330 µm
Coverage (flat surfaces)	0.30–0.60 Lt/m² · 0.50–1.00 kg/m²
Application temperature	5 °C to 45 °C
Drying time — 20–50 % RH	10–20 min at 10–20 °C · 5–15 min at 20–40 °C
Drying time — 50–80 % RH	15–30 min at 10–20 °C · 10–25 min at 20–40 °C
Drying time — 80–90 % RH	30–60 min at 10–20 °C · 20–45 min at 20–40 °C
Substrate moisture	≤4 % when marking; minimum 48 hours after rain
Primers (optional)	Epoxy WB Concrete Primer, PLASTILINE® Dust Fixing Primer SB or PLASTILINE® Dust Fixing Primer WB
Drop-on reflective glass beads	PLASTILINE Reflective Glass Beads EXTRA 125-850 AP or EXTRA 125-850 UC — minimum 400 g/m² applied; 50–60 % embedment optimal.
PACKAGING & STORAGE	
Pack sizes	5 Lt and 20 Lt
Shelf life	12 months from date of manufacture
Storage	Store indoors in original unopened packaging — dry, out of direct sunlight and away from heat, sparks and open flame.

CLIMATIC CONDITIONS

- Always check the weather forecast before starting work.
- Do not start application if heavy rain is expected within 2 hours.
- As for all road markings, do not paint on wet surfaces.
- Do not apply below 5 °C or above 45 °C air temperature.
- Allow a minimum of 48 hours after rain; substrate moisture must not exceed 4 % when marking.

SURFACE PREPARATION

- **General:** Prepare paved and curb surfaces properly before application using mechanical methods such as high-pressure cleaning, grinding or blasting. The surface must be dry, clean and free of dust, contamination, oils, loose particles and other impurities.
- **Load-bearing check:** Check existing markings and the surface for load-bearing capacity where the marking material is to be applied. If in doubt, always carry out an adhesion test sample first.
- **Existing markings:** Where required, remove old road markings prior to application using suitable mechanical methods.
- **Adhesion-impairing contaminants:** Remove surface components that impair adhesion — fine mortar layers, concrete slurries, curing compounds and similar — by high-pressure cleaning, grinding or blast cleaning.
- **Priming:** Where a primer is used, wet the surface completely to ensure optimal adhesion of the road paint. Primer consumption depends entirely on the porosity of the paving or curb. Allow sufficient time for the water to evaporate before the road paint is applied — generally around 30 minutes. Once the primed surface is no longer sticky to the touch it is ready to overcoat.
- **Moisture:** The moisture of the paving or curb should not exceed 4 % when marking. Allow a minimum of 48 hours after rain.

APPLICATION

- Supplied ready for processing. Mix the material well before processing.
- Thinner is generally not required. For optimising the material's spray properties, approximately 2 % Solvent EA may be added.
- Apply by brush, roller, airless or air-atomising equipment — 1 coat by spray.
- Apply at 300–600 µm WFT (165–330 µm DFT), equal to 0.30–0.60 Lt/m² on flat surfaces.
- Where reflective glass beads are specified, apply a minimum of 400 g/m² drop-on beads. An embedment of 50–60 % is optimal for good adhesion and retro-reflectivity.
- Use only glass beads that have been tested and deemed suitable for the application. Application equipment and methods should be adjusted to optimise the applied product.
- Selecting the correct bead enhances total system durability — always consider bead diameter against the coating thickness applied. The paint thickness should not be less than 50 % of the diameter of the smallest glass bead.
- Refer to the application guideline for further details.

PRECAUTIONS, TIPS & CLEAN-UP

- When standing overnight, the system should be closed.
- Make sure the pump pressure is off on airless systems.
- If the system has not been in use for a long period, flush with Solvent EA.
- Use only Solvent EA for paint flushing and equipment washing.
- Air caps and nozzles must be removed and cleaned carefully with Solvent EA using a nylon brush.
- If the paint has dried through, cleaning with MEK or acetone will soften it enough to remove it from the equipment.
- Never allow the paint to dry through in the lines or on the gun and tips.
- Ensure good ventilation during application and drying.

> **Do not:** apply below 5 °C or above 45 °C air temperature; apply to wet surfaces or where substrate moisture exceeds 4 %; start work if heavy rain is expected within 2 hours; apply within 48 hours of rain; apply over old markings or surfaces with inadequate load-bearing capacity; use glass beads that have not been tested and deemed suitable for the application; allow the paint to dry through in the lines, gun or tips.

HEALTH & SAFETY

Solvent-borne product — flammable. Keep away from heat, sparks, open flame and other sources of ignition; no smoking. Ensure good ventilation during application and drying, and use appropriate respiratory protection where ventilation is restricted. Wear protective gloves, eye protection and suitable protective clothing; avoid contact with skin and eyes and avoid breathing vapour or spray mist. Solvent EA, MEK and acetone used for thinning and clean-up are flammable and must be handled accordingly. Refer to the Safety Data Sheet for full PPE, safety, health and environmental information. Dispose of product, residues and empty containers per local and national requirements.

REGULATORY INFORMATION & DISCLAIMER

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