

Waterborne Traffic Paint

KS M 6080 Class 2



1. Product Overview

This paint is based on a waterborne, acrylic emulsion polymer. This fast drying paint has excellent properties such as weatherability, abrasion resistance and washability. This paint is environmentally friendly one-component type paint, because of low VOC (volatile organic compounds) content.

2. Product Characteristics

- Fast drying and excellent workability.
- Excellent weatherability and abrasion resistance.
- High durability because it can be coated thick even with one time coating with high solid content.
- Non-flammable, non-toxic (no lead, chromium, mercury, cadmium, etc.) and eco-friendly.

3. Recommended use

- Line marking of asphalt and concrete road
- Line marking for requires retroreflective performance

4. Type (color and grade)

Color	Grade
White	P4-R5/RW4
Yellow	P4-R4/RW4

※ These grades are experimental results. Quality can not be guaranteed if user does not observe the coating thickness, type of glass and the amount of application.

5. Properties

Color	White, Yellow	Recommended film thickness (μm)	Wet film : 420 μm
Viscosity (at 25°C)	80 - 90KU		Dry film : 260 μm
Specific gravity	White : 1.58 – 1.62 Yellow : 1.58 – 1.62	Drying time (20°C)	set-to-touch : min. 10 no-pick-up : min. 20
Solids by volume (%)	62 ±2%	Coverage (m ² /ℓ)	2.3 m ² /ℓ
Chromaticity (β)	White : above 0.8 Yellow : above 0.4		15 m/ℓ (thickness 15cm)
		Application	Spray, roller

※ The application area may vary depending on the condition of the road surface and the coating method.

6. Reflective glass beads

Type	Consumption (kg/m ²)	Application
SWARCOLUX50 TYP I T14	0.42 kg/m ²	manual and mechanical

This data is based on theory and experience in the laboratory and can be changed without prior notice due to continuous improvement of our quality. The amount of use may vary depending on site conditions (climate, working methods, road conditions, etc.).

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7. Painting specification

- Surface preparing : Remove the moisture, dirt, oil etc from the surface of the road.
- Surface condition : To avoid condensation of moisture, the surface temperature should be more than 10 °C or more than 3 °C higher than dew point, and the relative humidity should be 70% or less.
- Application : spray, roller
- Thinner : non thinning
- Temperature : Use at atmospheric temperature 10 °C ~ 40 °C.
(※ Operation below 10 °C will causes poor drying and poor adhesion.)
- Vehicle pass available time : min. 20 / 20 ~ 25°C (Recommended film thickness wet. 420μm)

8. Cautions on painting

- Avoid painting when the relative humidity is above 70% and the substrate surface temperature is below 10°C.
(Occur of problem (crack, poor adhesion etc.))
- Do not mix with other company products.
- Use after confirming the compatibility with the old film on repairing the old film.
- Use the total amount that has been opened products. Storage containers are then sealed and stored at a temperature 5 °C ~ 35 °C and humidity of 70% or less.
- It is possible that the film is formed on the product, so please use the filter net when entering the storage tank to prevent the film from entering.
- Remove the moisture, dirt, oil etc from the surface of the road.
- Stir to be mixed uniformly before application.
- Don't thinning.
- It is necessary to coat with the specified coating amount. In case of excessive coating at one time, the problem of drying failure may occur.
- If the coating surface is new concrete, apply it when the curing time is sufficient (curing for more than 30 days at 20 °C), the pH is 7 ~ 9 and the water content is less than 8%.
- In case of repetitive painting, it should be painted after confirming that it is sufficiently dried.
(Lifting, wrinkling, reverling, etc. may occur)
- Use at atmospheric temperature 10 °C ~ 40 °C. For avoid condensation of moisture, the surface temperature should be more than 10 °C or more than 3 °C higher than dew point.

9. Cautions on handling

- Prohibition of use other than the recommended use.
- Keep out of reach of children. Do not apply to children's equipment and food storage containers.
- When transporting, storing and handling the product, avoid fire and direct sunlight, store it in a dry and dark, keep the container sealed, and keep the filling port facing up.
- To prevent environmental pollution, completely use the contents and dispose of the remaining amount through the designated waste disposal company.
- Do not store or paint near fire. Avoid sparks due to impact, friction, etc. during handling.
- In case of contact with eyes, rinse immediately with plenty of water and seek doctor.
- If inhaled, move to a place with clear air. If irritation develops, consult a doctor immediately.
- If ingested, seek medical advice immediately.
- Use the product in efficacy period. (12 months)

※ For more information on product safety, see the Material Safety Data Sheet (GHS-MSDS).

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