



PAINTS

LineSTIL® THREE COMPONENT (COLD / 3K / SPRAY)

Product Description

LineSTIL® Cold Spray Road Marking Paint - Three component consists of A comp. Active, B comp. Reactive, C comp. benzoyl peroxide (BPO). C component hardener is added to B component at a rate of 2% and mixed until homogeneous . (This mixture should be consumed within maximum 6 hours.) This mixture is made ready to be used with component A at a ratio of 1:1. The mixture of component A and B+C is filled with the equipment where 1:1 spray application will be made. The two mixtures coming out of the spray gun are applied to the surface by mixing them homogeneously in the air . LineSTIL® Cold 3 Component Spray Road Marking Paint is a product with very high physical and chemical resistance which hardens with the reaction that occurs as a result of mixing and adheres to the surface on which it is applied. LineSTIL® Cold 3 Component Spray Road Marking Paint is suitable for use at pedestrian crossings, speed breaker, offset scanning, signalized intersections, warning signs, parking areas and other areas where durability is critical. LineSTIL® Cold 3 Component Spray Road Marking Paint is a new type that combines all of the features; easy to apply like traditional solvent-based road marking paints (Acrylic Road Marking Paint , Alkyd Road Marking Paint and Chlorine Rubber Road Marking Paint), fast drying properties of Thermoplastic road marking paint that requires heat application, and long service life of LineSTIL® Cold 2K traditionally used road marking paint. Even if its initial cost is higher, it has extremely high UV resistance, physical and chemical resistance. It is also an excellent road marking paint with reflective power. The road is opened to traffic 30 minutes at the latest after the application.

LINESTIL® COLD 3K SPRAY ROAD MARKING PAINT



Note: Component B should never be mixed into component A before application.

LineSTIL® Cold 3 Component Spray Road Marking Paint is formulated to meet the requirements of the Technical Specifications of the General Directorate of Highways of the Republic of Türkiye, TS EN 1871 and TS EN 1436 standards. In addition, production can be made according to world standards AASTHO M249, BS:3262.

Characteristics

*Excellent adhesion. *High mechanical and chemical resistance. *Resistant to harsh weather conditions and abrasion. *UV resistance is high *Provides fast drying, better durability, better color retention and gloss. *High covering and reflecting power. *Thanks to its high strength, it preserves its reflective power, color and film thickness for a long time under heavy traffic. *Hydrophobic surface with self-cleaning feature. *Extremely weather resistant and has a longer service life. *Excellent wear resistance and low dirt retention *High reflectivity/gloss factor when glass beads are added *Excellent adhesion to asphalt (some concrete surfaces need to be primed) *Excellent slip resistance on asphalt and bituminous surfaces *Excellent glass bead retention properties, Day and night visibility *The road can be opened to traffic 30- 45 minutes after the application.

Application Equipment

It is recommended to apply with professional hand application teams. It can be successfully applied with airless or air assist spray application equipment. Appropriate film thickness is created by changing the desired line width and film thickness, height of the spray gun, nozzle diameter, and air pressure.



Handpushing



Hand-held



3K Road Marking Machines

Surface Preparation Information

LineSTIL® Cold 3 Component Spray Road Marking Paint performance varies depending on the preparation level of the surface to be applied. The application surface must be clean, dry, dust-free, free from oil and other surface residues and loose materials by means of compressed air, broom, vacuum cleaner, water jet, etc. All auxiliary equipment for surface cleaning should be available before the application. The surface to be applied must not be wet. LineSTIL® Cold 3 Component Spray Road Marking Paint is recommended for maximum performance in the renewal of paints with the same properties (old paint coating residue should be less than 25%) or in newly applied asphalt and bitumen mixtures. It should never be applied on waterbased, solvent-based or thermoplastic paints. Other surface conditions, such as areas with heavy engine oil contamination or existing epoxy coatings, require a flushing procedure or abrading the surface prior to application of paint. The temperature of the paint should be 5 °C higher than the road surface to be applied.



Application Surfaces

It is suitable for asphalt and bituminous surfaces. When used on concrete road surfaces, LineStil® Acrylic impregnated primer is required to be applied to the concrete surface prior to application by milling, sandblasting or to close the porous capillaries on the concrete surface and increase adhesion.

Weather Condition

Air temperature, surface temperature, humidity and weather conditions following the application are very important for a correct application. Always check the weather forecast. Do not start the application if heavy rain is expected within 2 hours. Drying time may be extended at high relative humidity and low temperatures. Application air temperature should be between 5 °C and 40 °C. The main parameters that will affect the drying time are low temperature and ground temperatures, high relative humidity, dew and rain.

Paint Selection and Safety

It is important to use only recommended or specified paint for each application. Paints based on methyl-methacrylates emit high amounts of heat during the reaction. Avoid keeping and storing indoors and outdoors for long periods as much as possible. To avoid spills, risk of fire and evaporation of volatile organic compounds, ensure that the lids are tightly closed when transporting containers or storing products. Keep paints away from heat and flame. Please use suitable protective equipment, gloves and mask. Consult MSDS and/or product labels for further safety procedures.

 **Excellent Adhesion**
 **Excellent Durability**
 **High UV Resistance**
 **High Abrasion Resistance**
 **High Weather Resistance**

Paint Preparation

It is a Three-component paint consists of , A comp. Active, B comp. Reactive, and C comp. benzoyl peroxide (BPO). C component hardener is added to B component at a rate of 2% and mixed until homogeneous . (This mixture should be consumed within maximum 6 hours.) This mixture is made ready to be used with component A at a ratio of 1:1. The mixture of component A and B+C is filled with the equipment where 1:1 spray application will be made. Drying of the paint is initiated by adding a catalyst, also called a hardener, creating a fast-drying chemical reaction (polymerization). The 50% benzoyl peroxide (BPO) hardener is particularly suitable for this task. In order for LineSTIL® 3K Cold Spray Road Marking Paint , which is prepared for application, to provide high performance in the application, 1:1 spray must be applied homogeneously. It is recommended to apply with a professional team.

Glass Beads Usage Amounts

Film Thickness [mm]	Consumption [kg/m ²]
0,5	One Thousand

Glass beads of different sizes specified in the specifications of the administrations are sprinkled on the paint film immediately after the application.

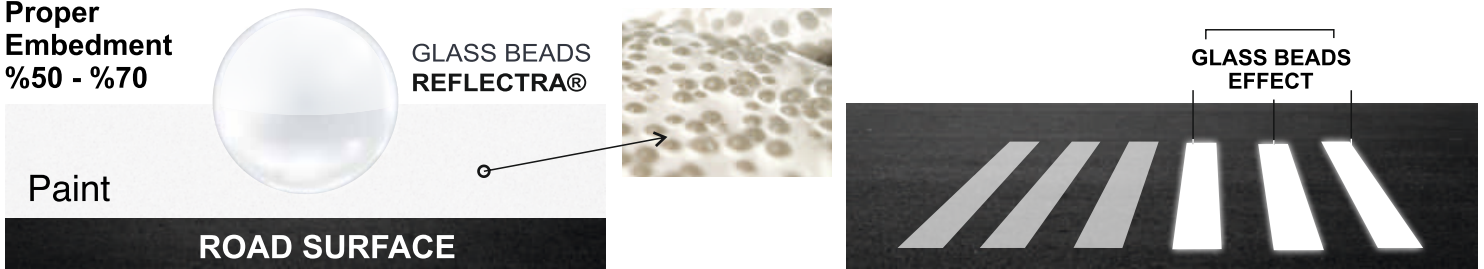
Glass Beads (TS EN 1423)	Need	Consumption
	340 g/m ²	550 g/m ²

Day & Night Visibility

Night Visibility: Thanks to the glass beads', in different sizes on the road marking paints, retro-reflective action at night a vehicle's headlight beam is returned to the driver's eyes which results in a "light-up effect" of the stripe and creates a Night visibility. This is a decisive plus for road safety. Visibility in road marking paint of the glass beads increases according to the embedding degree / size, amount and quality.

Daylight Visibility: The contrast between the coating and the pigmentation of the marking material allows the stripes to be seen clearly in daylight conditions.

Proper Embedment %50 - %70



Physical Properties	COLOR	WHITE	YELLOW
	VISCOSITY (KU)	110 ± 10	110 ± 10
	DENSITY	1.70 g/ml ± 0,05	1.70 g/ml ± 0,05
	LUMINANCE CLASS / GLOSS FACTOR	LF6 / β ≥ 0,80	LF2 / β ≥ 0,50

Classes of difference in gloss factor after UV aging		
COLOR	CLASS	Δβ
WHITE, YELLOW	UV-1	≤0,05

Classes of difference in Luminosity factor after bleeding resistance test		
COLOR	CLASS	Δβ
WHITE, YELLOW	BR-1	≤0,03

Application Areas



Highways



Airports



Facilities



Bicycle Trails

Waste Procedure

All regulations regarding the transport, storage and disposal of all hazardous materials and wastes must be carefully observed. Paint cans and related materials must be isolated in accordance with the required waste regulation. Otherwise, it may result in penalties in the legal legislation. Please comply with all regulations and minimize waste as much as possible.

Storage

Store between 5 °C and 30 °C in closed areas away from direct sunlight. Adequate ventilation of the storage area should be ensured to prevent moisture build-up. Keep away from sources of heat and sparks. The lid should be tightly closed when the paint can is not used. The minimum shelf life of LineSTIL 3K Spray Road Marking Paint is 1 Year in its original packaging and under appropriate storage conditions.

Important Information

The information given in this data sheet is not intended to be comprehensive and may not be used for any purpose other than that specifically recommended on this sheet without our written approval as to the suitability of the product for its intended use. Otherwise, it is entirely user's own responsibility. As conditions of use, application method and surface suitability during painting are out of our control. The recommendations contained herein do not make any guarantees. The recommendations contained herein do not give any guarantee. Therefore, we accept no responsibility whatsoever for any loss or damage caused by the performance or the use of this product. The information on this data sheet is obliged to make changes from time to time in the light of experience and ongoing product development programs. It is the user's responsibility to ensure that this page is up-to-date before using the product.

Note: These data have been tested under lab conditions in the R&D department of Stil Trafik İşaretleri San. Ve Tic. A.Ş. Our company cannot be held responsible for any direct, indirect, special and consequential losses and damages that may arise from relying on this information and its use.

Packaging

LineSTIL® 3K Cold Spray Road Marking Paint is produced in 25 kg metal cans as standard. It is produced in 180 kg barrels and 1000 kg IBC packages, if requested.



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