



LineSTIL® ACRYLIC (SOLVENT BASED)

Product Description

LineSTIL® Acrylic Road Marking Paint acrylic solvent-based is formulated as one component, fast drying, high physical and chemical resistance. LineStil Acrylic Road Marking Paint containing specially modified high-performance Thermoplastic Methylmethacrylate based acrylic resin has the feature of excellent adhesion and abrasion resistance with its highest level mechanical resistance. Maintains its luminance stability for a long period of time, thanks to its UV resistance.

Compared to conventional alkyd-based road marking paints, LineSTIL® Acrylic Road Marking Paint is more and more preferred among solvent-based paints with its fast-drying, resistance to weather conditions, color stability, and brightness by means of single component methylmethacrylate based resin. Volatile organic solvents form a film by evaporation and/or chemically applying with brush, roller, and spray method. It is designed for use on asphalt bituminous roads and concrete surfaces. It can also be used to mark airport/tarmac.

LineSTIL® Acrylic Road Marking Paint complies with the requirement of the General Directorate of Highways Technical Specifications (Türkiye), TS EN 1871 and TS EN 1436 standards.

LINESTIL® ACRYLIC ROAD MARKING PAINT



Characteristics

*Excellent adhesion. *High mechanical and chemical resistance *Resistant to heavy weather condition and abrasion. *UV resistance *Fast drying, better durability, better color retention and luminance *High coverage and reflectivity. *High strength allows to preserves its reflection power, color and film thickness for a long period time under heavy traffic. *Hydrophobic surface with self-cleaning feature. *Higher quality resulting from the fastest drying time among road marking paints (suitable ambient and surface temperature, humidity environment). After the application, according to the surface temperatures specified in the table below, depending on the drying times, the application area can be opened to traffic. *Providing excellent resistance to bleeding on bitumen substrates. *Easy to handle with all marking machines and spray equipment, even at high ambient temperature.

Surface Preparation Information

LineSTIL® Acrylic Road Line Paint performance varies depending on the preparation level of the surface to be applied. The application surface must be clean, dry, dust-free, free of oil and other surface residues and loose materials via compressed air, broom, vacuum cleaner, water jet. The surface to be applied should not be wet in any way. All auxiliary equipment for surface cleaning should be available before application. Center line or sideline pre-markings and points on the road should be pre-marked using rope, chalk or any pre-marking method on newly installed asphalt roads. The temperature of the paint should be 5 °C higher than the road surface to be applied.

Application Equipment

It is recommended to apply with professional application team. And also can be applied successfully with airless or air assist spray application equipment. The appropriate film thickness and width are obtained by adjusting the height of the spray gun, nozzle diameter, air pressure and driving speed. It can be applied successfully with a brush or roller for small applications.



Spray



Brush



Roller



Airless
Spray
Machines

Application Surface

It is suitable for asphalt surfaces. LineSTIL® Acrylic impregnated primer needs to be applied to the concrete surface before application in order to close the macro and micro pores, capillaries and increase adhesion on the concrete floor, when it will be applied on concrete road surfaces. It has excellent reflective properties even at low thicknesses when the application is combined with the usage of appropriate glass beads.



Weather Condition

For a correct application ; ambient temperature, substrate temperature, humidity and subsequent application is very important in weather conditions Always check the weather forecast and do not start the application if heavy rain is expected within 2 hours. Application ambient temperature should be the range of 5 °C and 40 °C. After a homogeneous mixture is prepared, it is applied with the help of suitable equipment for the surface. The main parameters that will affect the drying time are low air temperature, low ground temperature, high relative humidity, dew and also rain. According to the ambient temperature and relative humidity 50% specified in the table below, the application area can be opened to traffic, taking into account the drying times.

ACRYLIC	Drying Time (Relative Humidity 50%) at certain temperature	10 °C	23°C	40°C
	Substrate Touch Dry	20 min	10 min	7 min
	Hard Dry	60 min	30 min	15 min
	Overcoating (Minimum)	120 min	60 min	30 min

Paint Selection and Safety

It is preferable to use only the recommended or specified paint for each application. Avoid keeping and storing indoors and outdoors for a long time as much as possible. The paints should be mixed homogeneously and applied, in order to achieve high performance in the application. Make sure lids are tightly closed during transport of buckets / pallets or when storing products to avoid spillage, fire risk and solvent evaporation. Keep away from heat and flame. Please use suitable protective equipment, gloves and mask and refer to MSDS and / or labels for more safety procedures.

Application Condition

ACRYLIC	Temperature	5 - 40 °C
	Relative Humidity	80% (max).
	Drying Time	23 min (15 °C temp. & 50% humidity)

Paint Preparation

Before application, it is mixed with a mixer until it reaches a homogeneous consistency. The paint is made ready for application. It is recommended to practice with a professional team.

Caution: It is recommended that the process be carried out in an open and well ventilated environment in order to avoid sparking due to the electric mixer used..



Product and Glass Beads Usage Amounts

Wet Film Thickness [μ]	Dry Film Thickness [μ]	Consumption [kg/m ²]
143	80	0,28
179	100	0,32
268	150	0,47
313	175	0,52

Note: The values given in the table are theoretical values. Consumption amount may vary depending on the application surface and ambient condition.

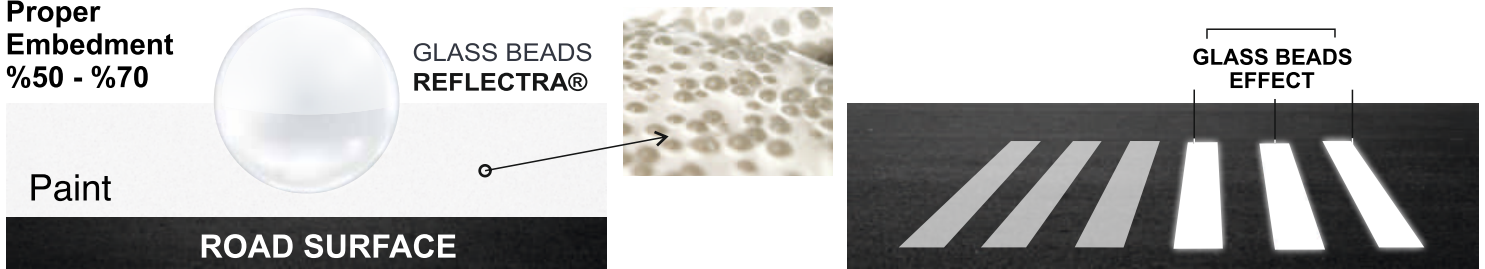
Glass Beads (TS EN 1423)	Ratio	Consumption
	265 g/m ²	350 g/m ²

Day & Night Visibility

Night Visibility: Due to the glass beads in different sizes on the road markings, the light beams from the vehicle headlights are reflected back. This results in "lighting" the lane, which creates night visibility, a decisive plus for road safety. Visibility increases according to the degree of embedding of the glass beads in the road marking paint and the size, quantity and quality.

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

Proper Embedment %50 - %70



Physical Properties	COLOR	WHITE	YELLOW
	VISCOSITY (DANIEL)	80-95 KU	80-95 KU
	DENSITY	1,55 g/ml \pm 0,10	1,55 g/ml \pm 0,10
	LIGHTING CLASS / BRIGHTNESS FACTOR	LF7 / $\beta \geq 0,85$	LF2 / $\beta \geq 0,50$
	AMOUNT OF SOLID MATERIAL	%75 \pm 2	%75 \pm 2

The Difference Classes in Luminosity Factor After UV Aging Test

COLOR	CLASS	$\Delta\beta$
WHITE, YELLOW	UV-1	$\leq 0,05$

The Difference Classes in Luminosity Factor After Bleeding Resistance Test

COLOR	CLASS	$\Delta\beta$
WHITE, YELLOW	BR-1	$\leq 0,03$

Application Areas



Asphalt Roads



Airports



Car Parks



Crosswalks



Industrial Areas

Waste Procedure

All regulations regarding the transportation, storage and disposal of all hazardous materials and wastes should be followed carefully. Paint pail and related materials should be insulated in accordance with the required waste regulations. Otherwise, it may result in penalties specified in the legal regulations. Please follow all regulations and minimize the excessive usage as possible.

Storage

Store between 5 °C and 30 °C in closed areas keeping away from direct sunlight. The storage area should be adequately ventilated to prevent moisture build-up. The storage area should be adequately ventilated to prevent moisture build-up. The lid should be tightly closed when the paint pail is not used. The shelf life of LineSTIL® Acrylic Road Marking Paint is minimum 1 year in its original packaging and under suitable 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® Acrylic Road Marking Paint is produced in 25 kg metal cans as standard and also can be produced in 180 kg barrels and 1000 kg IBC packages upon request.



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