

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



سرپرست کرسی های تخصصی و پژوهشی وزارت علوم، تحقیقات و فناوری
تر: زنگنه، فردوسیانج.

<p>درخواست سرپرستی کرسی: (IUL)378/2023/44 (03 شهریور 2023)</p>	<p>دستورالعمل: تر: زنگنه، فردوسیانج. دستورالعمل کرسی های تخصصی و پژوهشی وزارت علوم، تحقیقات و فناوری</p>
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دبیرخانه کرسی

در دبیرخانه کرسی (IUL)378/2023/44 (03 شهریور 2023) درخواست کرسی: فردوسیانج.

1. دستورالعمل کرسی:

در تر: زنگنه، فردوسیانج. دستورالعمل کرسی های تخصصی و پژوهشی وزارت علوم، تحقیقات و فناوری

2. در کرسی دستورالعمل:

2.1 اعتبار تا 6 ماه

2.2 ناوقت

2.3 کرسی پژوهشی

ر. سایر موارد:

- ✦ کرسی تا 6 ماه اعتبار دارد. اعتبار تا 6 ماه
- ✦ کرسی تا 6 ماه اعتبار دارد. اعتبار تا 6 ماه
- ✦ کرسی تا 6 ماه اعتبار دارد. اعتبار تا 6 ماه
- ✦ کرسی تا 6 ماه اعتبار دارد. اعتبار تا 6 ماه





DECORATIVE SYNTHETIC PRODUCT GROUP

Betek Road Marking Paint

PRODUCT DESCRIPTION

A chlorinated rubber-based, matte paint with high wear-resistant used for road and pavement markings.

SPECIFICATIONS

High adherence, quick-drying, abrasion resistant, high performance paint, which do not change color.

APPLICATION SURFACES

Intended for use in marking road lines, painting paving stones and marking parking lots. Asphalt and concrete surfaces. For concrete surfaces, the concrete must be poured at least 1 month prior to the application. It is recommended to perform a test with some amount of paint on the surface for applications on previously painted surfaces (epoxy, water based road marking paint, etc.).

APPLICATION

Any dust, dirt, stone chips and so on materials must be removed of the surface before applying Betek Road Marking Paint. For painting paving stones, broken, missing sections should first be corrected or replaced. For marking road lines, application should be made on loose ground, abraded aggregated surfaces as much as possible. The application should be made on a clean and dry asphalt surface under ambient conditions without rain and wind, provided that ambient and asphalt temperature is minimum of 15 °C and relative humidity is maximum of 85%. Pedestrian or vehicle traffic should not be allowed before the hard dry time (45 minutes at 25°C) is completed. If glass globules are to be applied, the glass globules should be added into the paint during the application immediately after the paint has been applied in order to obtain a brightness effect due to the correct reflection of light beams coming from any source and to ensure road safety especially in night drives. When the material is initially applied to the road, glass globules are invisible. However, they become visible after a while due to the abrasion caused by traffic. Over time, they continue to serve as a reflective agent, with road lines appearing shiny. Before application, shiny surfaces should always be coarsened. For ideal surface performance, glass globules should be added into the product, and the application should be made with airless systems.

You can access the MSDS and TDS forms including the information regarding detailed application, healthy-safety-handling risks and precautions on www.betekexport.com.

THINNING

Ready to use.

DRYING TIME (at 20°C, 65% HR):

Touch drying is completed in approximately 15 minutes. Final drying (time period required to open to traffic) is approximately 45 minutes (drying time may extend in higher relative humidity and lower temperature conditions).

CONSUMPTION

Depending on the type, absorbency and structure of the application surface, an area of 3 m² can be painted with 1 liter for a dry film layer thickness of 550 microns. Perform a controlled sample run to estimate the precise consumption.

FLASH POINT

<23°C

STORAGE

May be stored for at least 3 years in its unopened packaging in a cool and dry environment protected against frosting and direct sunlight. To store the paint remaining in its packaging safely, some amount of thinner used must be added until the whole surface of the paint is completely covered or cover of the packaging must be closed firmly and fixed after twisted 180° for 1-2 times.

PACKAGING

25Kg

HAZARD DESCRIPTION

Xn Hazardous to health.



F Highly flammable.

Hazard statements

H225 Highly flammable liquid and vapour.
H350 May cause cancer.
H360Df May damage the unborn child. Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
Contains 2-butanone oxime. May produce an allergic reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P405 Store locked up.
P501 Dispose of contents/

Ingredients identifying the hazard for labeling:

Naphtha (petroleum), hydrotreated heavy
Toluene

This technical sheet is prepared based on laboratory data under normal conditions, consult to technical personnel for details that are not provided above. Otherwise, the manufacturing company cannot be held responsible for the failures that may arise due to lack of knowledge. Our company reserves the right to change this information.

This product is manufactured by Betek A.Ş. having the certificate of conformity to the standards TS EN ISO 9001, TS EN ISO 14001, TS 18001, TS EN ISO 50001, TS ISO 10002.

FEATURES

TOA Roadline Paints(Non reflective) are based on high quality acrylic resin and chlorinated rubber that suitable for both interior and exterior. The properties of these paints are high film build, excellent adhesion on both asphalt and concrete surfaces, good weathering resistant as well as good resistant to oil, grease and other road residues.

These paints are suitable for road markings and safety symbols on curbs, roads, streets, highways, local roads and car park.

TECHNICAL INFORMATION

Type	Acrylic Resin and Chlorinated Rubber
Color	White, Yellow, Red and Black
Film appearance	Matt
Solid by volume	50.0 ± 2.0 %
Solid by weight	45.0 ± 2.0 %
Flash point	6.9 °C
Volatile organic compounds (VOCs)	NA gram / liter
Wet film thickness	100 microns
Dry film thickness	45 microns
Theoretical coverage.	8-10 sq.m. / liter / coat 24-30 sq.m. / gallon / coat

Remark - Actual Surface coverage will depend on surface irregularities, Mixing, Application Condition method and technique; as well as the structure and dimensions of the object to be coated.

Touch dry (25-30 °C)	10 -20 minutes.
Recoat dry (25-30 °C)	1 hours.
Full cure (25-30 °C)	3 days.

REFERENCE STANDARD

APPLICATION

Tools	Roller, Brush, Spray
Thinner No.	TOA Thinner # 81
Dilution (%)	10 % (roller and brush) 15 % (spray)

APPLICATION SYSTEM

Surface Preparation

Old surface

- 1.Chalky surfaces or loose material must be removed by stiff brush.
- 2.The surface must be clean and free of dirt, grease, oil, wax, salt, old paint and other contaminants.

New surface

- 1.The surface must be clean with suitable cleansing solution and water then rinse thoroughly with fresh water and allow to fully dry.

Coating system

Primer

: To enhance the adhesion, recommend to apply TOA Penetrating Sealer at least 1 coat on hard or smooth surface such as polished cement floor.

Topcoat

Mixing ratios between TOA ROADLINE PAINT and TOA Thinner #81 are 20:2 for first coat and 7:1 for second coat, respectively.

Apply by brush with TOA ROADLINE PAINT at least 2 coats.(Recoat time is at least 1 hours)



Recommendation

: The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure correct drying.

HANDLING AND STORAGE

Storage condition

: The product must be stored in accordance with national regulations.
Keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Shelf life

: 2 years.

HEALTH AND SAFETY

: Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

: For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

: The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything only the quality of the product itself. We reserve the right to change the given data without notice.