

TECHNICAL INFORMATION

PINTURA TERMOPLÁSTICA BLANCA

White Thermoplastic Marking Paint



511-00416-000

DESCRIPTION

White Thermoplastic Paint 416-000 has been specially designed for marking concrete or asphalt pavements. It exceeds the parameters of AASHTO M 249-12 standard in reflectance, fluidity, impact resistance and other properties measured by this standard. Meets Costa Rican INTECO Inte Q44.3:2014 cor 1:2015

USE

This is a professional paint for marking roads, highways, streets, pedestrian crossings or parking lots, drawing side or central lines, legends or symbols on pavement. It can be applied on concrete or asphalt using self-propelled or manual equipment.

Structure	Roads, parking
Exterior/Interior	Indoor, Outdoor
Surface	Asphalt pavement, Concrete
Product line	Professional/industrial Line

CHARACTERISTICS

ASSESSMENT

Hiding Power ● ● ● ● ○

Outdoor resistance ● ● ● ● ○

PHYSICAL PROPERTY

DATA

Volume Solids (%)	100
Weight solids (%)	100
Softening Temperature (°C)	93 - 112 (4h @ 218°C)

These technical data were calculated under controlled laboratory conditions, but SUR QUIMICA has no control over conditions, tools, applicator skills, selection, preparation or compatibility of products used; therefore, can only guarantee this product quality, its features and qualities' suitability, but is not responsible for the results obtained in conditions impossible to check once the job has been done. SUR QUIMICA has made reasonable efforts to ensure the accuracy of the information provided here, but assumes no responsibility for any error, omission or inaccuracy in it. If there is any inconsistency between different language issues of this document, Spanish version will prevail.



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Practical performance varies depending on the type of surface used tool, applicator experience and other factors. 1 mil = 0.0254 mm.

PRESENTATION

AVAILABLE PRESENTATIONS

25 kilo bag

AVAILABLE COLORS

White 000

Yellow 100

SURFACE PREPARATION

CONDITION

INSTRUCTION

Warning:

Apply this thermoplastic paint on properly cured asphalt (ask the supplier of the asphalt mixture about its full curing time)

Concrete and asphalt

Do not apply on wet surfaces.

Do not apply in humid environments (relative humidity over 85%) or at temperatures below 15°C.

In concrete and asphalt it is advisable to apply it over sealer and Road Marking Primer 511-00417-900 or 511-00424-900.:

Apply 511-00417-900 Sealer if this thermoplastic material is to be applied over hydraulic concrete pavements (see note 3) or old asphalt pavements (see note 4), to promote adhesion.

It is not necessary to use a sealer on asphalt pavements that have been placed in a period of less than one year.

Note 3. For contrast effects a black sealer could be used.

Note 4. An asphalt pavement is considered old when it is more than one year old.

Concrete surfaces subjected to traffic (roads, parking lots or sidewalks)

Surface must be thoroughly swept before applying.

New concrete must be cured for 28 days (minimum).

Surface must be swept with hand or power equipment before applying. New concrete must be cured for 28 days (minimum).

Surface preparation:

Surface must be free of rust, grease, dust, or any other contaminant.

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Concrete Do not apply on wet surfaces. Nor should it be applied in humid environments (relative humidity over 85%) or at temperatures below 15°C.

PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Product: 511-00416-000, PINTURA TERMOPLÁSTICA BLANCA	100%	See Application Instructions

Environmentally friendly, it does not have volatile organic components (VOC), quick drying and allows to use the marked areas just 10 minutes after application. It contains microspheres complying with AASHTO M 247 INTERMIX Type I, can accept additional microspheres immediately after the application.

PRODUCT APPLICATION

IT CAN BE APPLIED WITH

Self-propelled or manual equipment.

Number of layers and thickness

Maximum recommended thickness Demarcation line: 1.5 – 2.2mm. (dry).

Drying times

Drying times listed are under ideal conditions (Between 22–28°C temperature and 50 – 80% relative humidity). These times are dependent on temperature, moisture, film thickness and dilution.

Application Instructions

Add thermoplastic paint to the boiler tank at 30% of its capacity; then proceed to heat the thermoplastic material to a temperature between 180 °C – 190 °C, stirring properly until the thermoplastic paint becomes a homogeneous liquid.

When the material is completely melted, proceed to gradually add the remaining material (70%) to full capacity of the boiler tank.

Heat again to 180 °C – 190 °C, stirring properly, until the thermoplastic material is liquid – homogeneous.

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Finally, distribute the molten thermoplastic material between the application equipment (self-propelled or manual) and make the respective applications.

Final Instructions

Do not apply the thermoplastic paint if its temperature is under 170°C or over 190°C, as it may cause problems during application.

Thermoplastic paint should not exceed 190°C.

Clean the boiler tank and application gutters every time the equipment is finished using.

Concrete and/or asphalt surfaces must have a temperature below 45°C, be completely moisture-free and with no forecast of rain during the following 3 hours after application.

If workday ends and the boiler tank still contains thermoplastic material, that material should not exceed 15% volume of the tank's capacity.

Application equipment (self-propelled or manual) must be capable of maintaining material at application temperature.

If during the transport of the thermoplastic material, it exceeds 60°C, certain part of the bag can agglomerate, in that case, hit the bag to release that material and add it to the boiler tank.

NOTICE

- ✓ If you need more information, check our website <https://www.gruposur.com/asistencia/>
- ✓ Container must be kept out of reach of children, tightly closed in a ventilated place, away from sunlight or intense heat,

HEALTH

- ✓ This is a professional/industrial product and it should be applied by properly trained personnel, wearing appropriate Personal Protection Equipment (PPE), as described in its Safety data Sheet (MSDS), available at <http://www.gruposur.com>
- ✓ Molten thermoplastic can cause severe burns.
 - ✓ Dispose of product or packaging waste in accordance with local legislation.
- ✓ If you need to dispose of empty containers of our products in Costa Rica, contact your SUR Color paint store or our industrial compound in La Uruca, San Jose.

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