

TECHNICAL INFORMATION

TRAFFIC PAINT AASHTO-M248-91 TIPO N

511-00409-000



DESCRIPTION

TRAFFIC PAINT AASHTO-M248-91 Type N is a lead-free paint, especially for road markings, formulated on alkyd resins and chlorinated rubber, which provide special drying properties and resistance to abrasion. When mixed with glass microspheres, it provides a highly reflective finish. Formulated according to specification AASHTO-M248-91 (2012) Type N. In addition, it complies with the latest version of Costa Rican standard INTE Q-44-2, table 1, Lead and Mercury free, and with requirements of Costa Rican Executive Decree 24334-S.

USE

For concrete and asphalt roads and parking lots marking.

Structure	Roads and parking lots
Interior/Exterior	Outdoor, Indoor
Surface	Asphalt, Concrete.
Line	Domestic Line, Industrial/Professional Line

PROPERTIES

SPECIAL PROPERTIES

Hiding Power	● ● ● ● ○
Weather resistance	● ● ● ● ○
Appearance	Matte

PROPIEDADES FÍSICAS

DATOS

Volume Solids (%)	57 (minimum) [% v/v. ASTM D 2697]
Weight per gallon (kg/gal)	5,90 – 6,20 [ASTM D 1475]
Minimum finesse in Hegman units	3,5 (minimum) [ASTM D 1210]
Nonvolatile vehicle content % m/m	41 (minimum)
Stormer Krebs Viscosity (Ku)	70 – 80 [ASTM D 562]
Theoretical Yield (m ² /gallon)	85 (@ 1 mil dry)
VOC (Volatile Organic Compounds) (gr/liter)	550

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.



Versión 1.0 del: Jul 7/7/2021
7 2021 11:58AM



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Maximum concentration of lead, in mass (Costa Rican Executive Decree N°24334-S)	< 0.06 %
Density	1.56 - 1.64
Total solids content, % m/m	70 - 75 [ASTM D 4451]
Resin type	Alkyd resin and chlorinated rubber
Total volatile content, % m/m	25 - 30
% of Chlorinated Rubber based on % of resin	19 - 21
% of Titanium Dioxide and yellow pigment- yellow paint (lead free)	34 -36 (Over total pigment %)
Percentage Titanium Dioxide- white paint	29 - 31 (Over total pigment %)
Dry Opacity, Contrast Ratio, Minimum	0,90 (yellow)
Dry Opacity, Contrast Ratio, Minimum	0.86 (white)
Adhesion %.	100%
Total Pigment Content (%) (ASTM D-4451)	57 - 60
Abrasion in liters of sand/mil: WHITE	76
Abrasion in liters of sand/mil: YELLOW	44
Abrasion in liters of sand/mil: BLACK	96

Definition of theoretical yield: Maximum surface that can be covered with a painting under ideal conditions. Practical yield varies depending on type of surface, used tool, applicator experience and other factors. 1 mil = 0.0254 mm.

CONTAINERS AND COLORS

AVAILABLE CONTAINERS

1 gallon can (3.785 Lt.)

5-gallon bucket (18.925 Lt.)

AVAILABLE COLORS

White (INTE Q-44-2) RAL 9016

Yellow (INTE Q-44-2) RAL 1003

SURFACE PREPARATION

CONDITION

INSTRUCTION

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Surface Cleaning	<p>In Costa Rica: Follow guidelines of INTE Q46:2017/Enm1:2018 Guía de buenas prácticas para la demarcación vial horizontal (Guide to good practices for horizontal road demarcation).</p> <p>To guarantee this product's adhesion, surface must be dry, clean, free of dust, dirt, grease, oil stains or any other type of contaminant.</p> <p>Any residues of sealants in concrete can interfere with bond, so these must be removed by abrasive methods such as scarifying.</p> <p>All poorly adhered paint residues must be removed by manual or mechanical means.</p> <p>Superficial deterioration such as potholes, exposed voids, "lizard skin", dusting, bleeding, exudation, and others can reduce the life of this marking paint.</p>
Concrete subject to traffic	<p>Concrete surfaces subject to traffic (roads, parking lots or sidewalks): For new concrete surfaces, observe a curing time of at least 28 days before marking it with TRAFFIC PAINT AASHTO-M248-91 Type N.</p> <p>In floors of polished concrete previously treated with densifiers, sealers, membrane healers or any other method that waterproofs and generates greater concrete hardness, an anchor profile must be generated by mechanical or chemical means.</p> <p>Under these circumstances, request for technical assistance as indicated at the bottom of this document.</p>
Asphalt Surfaces	<p>For new asphalt pavement surfaces, it is recommended to age for at least 7 days before applying this finish.</p>

PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Product: 511-00409-000, TRAFFIC PAINT 100 parts AASHTO-M248-91 Tipo N		Stir well before use, then add diluent
Diluent: 510-00456-900, DILUYENTE 10 - 15 parts ODORLESS		Add from 10 to 15% to apply on concrete, in high temperatures.
Diluent: 510-00457-900, DILUYENTE 457	10 - 15 parts	Add from 10 to 15 %, to apply on asphalt.
Diluent: 510-00460-900, DILUYENTE 460	10 - 15 parts	Add from 10 to 15 %, to apply on asphalt.

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PRODUCT APPLICATION

APPLICATION TOOL

Brush Airless equipment Air spray (gravity or suction feed) Roller

Application conditions

Do not apply this product on wet surfaces, or when the relative humidity is above 85%.

Number of layers and thickness

Minimum recommended thickness	5 - 15 mils.
Maximum recommended thickness (demarcation lines).	Demarcation line: 15 mils (dry) Other areas (parking lots): 5 - 10 mils

DRYING TIMES

NO-Pickup drying, equal or lower than 15 minutes.

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

Application Instructions

Before and during use, stir manually to maintain uniform consistency.
In cold and humid environments drying time is longer.

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, between 20 and 30°C to avoid loss of its properties.

HEALTH

- ✓ Dispose of residues of products or containers according to local laws.
- ✓ The user of this product may need the appropriate Personal Protection Equipment (PPE), as described in its Safety data Sheet (MSDS), available at <http://www.gruposur.com>
- ✓ If you need to dispose of empty containers of our products in Costa Rica, contact your SUR store or our industrial compound in La Uruca, San Jose

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