

## TECHNICAL DESCRIPTION

INDUSTRIAL PRODUCT

No. 298

MAY 2010



## PAINT FOR HORIZONTAL ROAD MARKING "TRAFFIC"

### SHORT DESCRIPTION

<b>Description:</b>	One-component paint based on alkyd and chlorinated-rubber resins
<b>Use:</b>	For horizontal marking of roads and highways, airplane runways, car parks, playgrounds and sports grounds with asphalt and pre-primed with Specialised primer for horizontal road marking concrete pavements. Meets the special requirements for road construction.
<b>Properties:</b>	<ul style="list-style-type: none"><li>• Meets the requirements of BNS EN 1871:2004 and BNS EN 1436:2008</li><li>• Excellent working properties, ensuring very good conditions for traffic safety;</li><li>• High wear resistance;</li><li>• Good elasticity;</li><li>• High cohesion coefficient;</li><li>• Resistance to gasoline and water.</li></ul>
<b>Drying temperature:</b>	At normal air temperature. Work in dry weather at a temperature from 5°C to 35°C.
<b>Certificates and technical specification:</b>	<b>TS-ORG-0094</b> Certificate of conformity No. 14 RERECBM – 746 / 16.12.2009 for One-component chlorinated rubber paint for horizontal road marking "Traffic" Deko Professional white and yellow with BNS EN 1871:2004 and BNS EN 1436:2008. Evaluator: "Bulgarcontrola" JSC.

### PHYSICAL CHARACTERISTICS

<b>Colour:</b>	Produced in white and yellow colours.
<b>Appearance:</b>	Homogenous, easy-flowing mass.
<b>Flowing time, funnel 6 mm, (23±0,5)°C:</b> (BNS EN ISO 2431)	min 90
<b>Non-volatile content:</b> (BNS EN ISO 3251):	min 72,5%
<b>Theoretical consumption:</b>	400-500 g/m <sup>2</sup> at thickness of the dry film about 200 µm.
<b>Ignition temperature:</b>	12°C
<b>Density (BNS EN ISO 2811-1):</b>	1,60 ±0,05 g/cm <sup>3</sup>
<b>Maximum content of VOC for this product (cat.: A/i) is 500 g/l</b>	

### CHARACTERISTICS OF THE COATING

<b>Complete drying time, (23±2)°C, at thickness of the dry film 45 – 60 µm:</b> (BNS EN 29117)	30 min
<b>Drying:</b>	At application thickness of the dry coating of 200 - 250 µm, depending on the environmental temperature it dries in 85 – 90 min.
<b>Rub resistance of the film with sand</b>	0,70 kg/µm (at min 0,08 kg/µm in accordance with BNS 14120-77)

<b>at thickness of the dry film 60 µm:</b> (BNS 14120-77)	
<b>Wear resistance of the coating with Taber apparatus:</b> (MKS.Z.S2.240)	max 150 mg/100 revolutions
<b>Test of lattice threads:</b> (BNS EN ISO 2409):	2 degree
<b>Elasticity of the film in bending, applied with 0,5 mm applicator:</b> (GSTU 218-03450778-105-2003)	max 20 mm
<b>Sliding resistance:</b> (EN 1436)	45, class S 1, SRT units
<b>Resistance to the effect of liquids at (23±2)°C;</b> (BNS ISO 2812-1)	<ul style="list-style-type: none"> <li>distilled water: min 72 hours</li> </ul>
<b>Luminance Factor (β):</b> (EN 1871)	<p>β &gt; 0,80 % class LF6 – for white</p> <p>β &gt; 0,40 % class LF1 – for yellow</p>
<b>Working method:</b>	<p>Open the packaging carefully and homogenize well. Work at temperatures over 5°C for air and maximum 35°C for the pavement.</p> <p>In hot summer days (air temperatures over 25°C, respectively over 35°C of the asphalt surface), application must be done in the morning (6-10 h), late in the afternoon (18-22 h) or during the night, especially for relatively new asphalt pavements.</p>
<b>Thinning:</b>	<p>With Deko Professional Bat Thinner <b>summer / winter (spring, autumn)</b>, depending on the season:</p> <p>1. <b>On new and relatively new asphalt pavements</b> it is applied mainly by machines for airless spraying, without thinner or with minimum thinning up to 4%. (Greater thinning is not necessary because the new asphalt surface has a sufficiently thick layer of bitumen, which would be dissolved in the highly thinned paint and as a result the marking would turn yellow or black). The time for releasing the road traffic is at least 2,5 hours after applying the marking in a specific section.</p> <p>2. <b>On old asphalt and concrete pavements</b> it is applied in <b>two ways</b>:</p> <p>2.1. With machines for airless and air spraying, obligatory thinning of the paint up to 6-8%. (This is necessary for better wetting of the old asphalt or concrete pavement with the thinned paint and therefore to improve the cohesion between them).</p> <p>2.2. After preliminary priming with <b>Specialised primer for HRM (after complete drying – 15–20 minutes)</b> with machines for airless spraying, without thinner or with minimum thinning to 4% BAT Thinner. The thickness of the dry film must be 250-300 microns, which is achieved with 400-500 microns wet film (because of the obligatory 6-8% thinning). The time for releasing the road traffic is at least 2,5 hours after applying the marking in a specific section.</p>
<b>Application method:</b>	Road marking equipment, brush, roller
<b>Suitable bases:</b>	Asphalt and concrete surfaces
<b>Preparation of the base:</b>	<ul style="list-style-type: none"> <li>Cleaning from mud and dust;</li> <li>Removal of oily stains with Deko Professional BAT Thinner / AMV Thinner;</li> </ul>

	<ul style="list-style-type: none"> <li>• Drying of the painted surfaces;</li> <li>• If necessary – priming of the concrete surfaces and worn out asphalt surfaces with Specialised primer for horizontal road marking.</li> </ul>
<b>Coating thickness:</b>	The thickness of the dry film must be 220-250 microns, which is achieved with 300-400 microns wet film. The consumption is 450-500 g/m <sup>2</sup> (without thinner). In this thickness of the dry film a light-reflective layer of beads may be applied.
<b>Safety measures:</b>	Deko Professional Paint for horizontal road marking "TRAFFIC" is classified as a harmful and flammable product. When used, the requirements for fire safety and production hygiene must be observed. If necessary – refer to the Safety Data Sheet.
<b>Packaging:</b>	Metal packages with net weight 25 kg.
<b>Storage:</b>	Storage temperature – up to 30°C. Store in original, tightly sealed packages in sheltered and dry storage premises, protected from direct sunlight and heating appliances! Keep out of the reach of children!
<b>Shelf life:</b>	12 months from production date in factory-sealed package.

## RECOMMENDED APPLICATION SYSTEMS:

BASE	SYSTEM	COATS	Total thickness of the dry film	Time for application of next coat
Asphalt and concrete	<u>I system</u> Deko Professional Paint for horizontal road marking "TRAFFIC", thinned according to instructions with Deko Professional BAT Thinner summer / winter	I coat	220-250 microns	---
	<u>II system</u> Specialised primer for HRM Deko Professional Paint for horizontal road marking "TRAFFIC", thinned according to instructions with Deko Professional BAT Thinner summer / winter	I coat	0-10 microns	---
		II coat	200-250 microns	After drying of the previous coat