

# NILA<sup>®</sup>-Plast

## PRO 125 / II (Type I)



### Thermoplastic road marking material (type I - marking)

Thermoplastic road marking material (type I - marking) class P7 – onlaid – Bundesanstalt für Straßenwesen (BAST) wear simulator testreport 2003 1DH 11.08, suitable for continuously, frequently (up to 15000 cars per day) and rarely passed-over (more than 15000 cars per day) markings.

Classification according to	ZTV M 13	New state	R4, Q5, S1, T2
		Used state	R3, Q5, S1, P7

test results on wear simulator BAST.

Layer thickness: 3 mm

#### Product description

NILA<sup>®</sup>- Plast PRO 125 / II (Type I) a thermoplastic road marking material based on hydrocarbon resin and chosen quartz sand and extender. The night-time visibility (retroreflection) of the applied material is achieved by premixed and drop-on glassbeads.

#### Testreport

NILA<sup>®</sup>- Plast PRO 125 / II (Type I) has been tested on the turntable road marking test system (RPA) of the Federal Highway Research Institute (BAST) for wear resistance and the development of traffic engineering properties.

#### Application fields

This material is a white, retroreflective, onlaid or inlaid thermoplastic road marking material as a type I marking for motorways, roads, athletic grounds, airports and parking places. It is suitable for continuously, frequently (up to 15000 cars per day) and rarely passed-over ( $\geq 15000$  cars per day) markings.

#### Properties

NILA<sup>®</sup>- Plast PRO 125 / II (Type I) is a high-class thermoplastic road marking material, which is characterized by a high softening point, high deformation resistance, good skid resistance, very good adhesion and applicability. After cooling down passing-over of the road-marking is possible after a short time (5 to 10 minutes).

Requirements in-use of NILA<sup>®</sup>- Plast PRO 125 / II (Type I) with drop-on material accordance with Potters Europe 3D AC05 + M72 3:1, DIN EN 1436:

	New state	Used state
day-time visibility	$Q4 \geq 200 \text{ mcd} / \text{m}^2 \cdot \text{lx}$	$Q3 \geq 130 \text{ mcd} / \text{m}^2 \cdot \text{lx}$
night-time visibility	dry $R4 \geq 200 \text{ mcd} / \text{m}^2 \cdot \text{lx}$	$R2 \geq 100 \text{ mcd} / \text{m}^2 \cdot \text{lx}$
skid resistance	$S1 \geq 45 \text{ SRT-units}$	

#### Central Sales

Dortmunder Gußasphalt GmbH & Co. KG

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#### Producer

Plant TEWE Bauchemie

# NILA<sup>®</sup>- Plast PRO 125 / II (Type I)

The wear resistance under the conditions of the BAST wear simulator after 4 million roll-overs was  $\geq 90\%$ . This is corresponding to class P7 according to section 5.2 ZTV M 13.

## Technical data

Base	hydrocarbon resin, quartz sand, extender
Solvent	solvent free
Colour	white
Necessary working operations	onlaid, drop-on
Dry residue	100 %
Bulk density (spec. weight)	app. 2.04 g/cm <sup>3</sup>
Softening point Wilhelmi	app. 101 °C
Nüsseldeformation	app. 1.0
Skid resistance	$\geq 45$ SRT-units

## Application

NILA<sup>®</sup>- Plast PRO 125 / II (Type I) is applied to surfaces at temperatures of between 180 and 210 °C in a thickness of 3 mm using a screed box or self-propelled laying machine. The road surface must be dry, clean, free of dust and oil. In spring and autumn the relative humidity of the air (dew point) must be considered by reason of dew point. If the minimum temperature is below +5 °C, the road surface must be warmed before application. During application 300 g/m<sup>2</sup> drop-on material Potters Europe 3D AC05 + M72 3:1 must be dropped on to the thermoplastic immediately to reach the required night-time visibility.

## Consumption

The consumption with a 3 mm layer thickness is 6.12 kg/m<sup>2</sup> and width of:

10 cm	612 kg / 1.000 m
12 cm	734 kg / 1.000 m
15 cm	918 kg / 1.000 m

and unspared layer.

More consumption for instance in case of roughness of the underground must be separately calculated.

## Delivery and Storage

NILA<sup>®</sup>- Plast PRO 125 / II (Type I) is delivered as

Block material	approx. 25-kg-coated carton, 40 on a pallet or as
Powder material	25-kg-polyethylenbags, 40 on a pallet

Shelf life of NILA<sup>®</sup>- Plast PRO 2.0 block material is unlimited and shelf life of powder material is one year. Labelling in line of official regulations lapses.

This product information corresponds to our latest available information. The processor is obliged to test the suitability and application options for the intended purpose. We shall be pleased to advise if you have any questions about our product. Our Terms and Conditions of Business apply, which can be found at [www.dga.de](http://www.dga.de).

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