

NILA[®]-Plast PRO 3.0-P (Type I)



Thermoplastic road marking material (type I - marking)

Thermoplastic road marking material (type I - marking) class P7 – onlaid and inlaid
AETEC wear simulator testreport 5915/P-RR-II from
03. July 2024 suitable for continuously, frequently and rarely passed-over markings.

Specification	DIN EN 1436	applied	R4; RW4; Q5; S5; T2
		In use	R4; RW3; Q4; S4; P7, B5

test results on wear simulator AETEC.

Layer thickness:	onlaid	3 mm;
	inlaid	3/5 and 6/8 mm.

Product description

NILA[®]- Plast PRO 3.0-P is 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

The in-use performance of NILA[®]- Plast PRO 3.0-P (Type I) is tested on the wear simulator of the AETEC corresponding to the draft prEN 13197 Road marking materials - Wear simulator turntable.

Example of use

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 and rarely passed-over markings.

Properties

NILA[®]- Plast PRO 3.0-P 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[®]- Plast PRO 3.0-P (Type I) with drop-on material accordance with Potters Europe Echostar[®] 10 TRM SRT GV 25 (125 bis 850 µm) 3:1 DIN EN 1436:

		applied	in use
day-time visibility		Q5 ≥ 200 mcd /m ² ·lx	Q4 ≥ 160 mcd/m ² ×lx
night-time visibility	dry	R4 ≥ 200 mcd/m ² ×lx	R4 ≥ 200 mcd/m ² ×lx
	wet	RW4 ≥ 75 mcd/m ² ×lx	RW3 ≥ 50 mcd/m ² ×lx
skid resistance		S4 ≥ 60 SRT-units	

The wear resistance under the conditions of the AETEC wear simulator after 4 million roll-overs was 100 %. This is corresponding to class P7 according to DIN EN 13197.

Central Sales

Dortmunder Gußasphalt GmbH & Co. KG

✉ Am Hafenbahnhof 10 ■ 44147 Dortmund ■ Germany

☎ +49 231 395797 - 37 @ info@dga.de 🌐 www.dga.de

NILA®- Plast PRO 3.0-P (Type I)

Technical data

Base:	hydrocarbon resin, quartz sand, extender
Solvent:	solvent free
Colour:	white
Necessary working operations:	onlaid or inlaid, drop-on
Specific gravity:	approx. 2.03 g/cm ³
Softening point Wilhelmi:	approx. 110 °C
Nüsseldeformation:	approx. 1.0
Skid resistance:	≥ 60 SRT-units
Day-time visibility (with drop-on material and 4 million rollovers):	≥ 0.75 (LF5)
Night-time visibility (with drop-on material and 4 million rollovers, type I wear simulator) dry:	200 mcd/m ² ×lx

Application

NILA®- Plast PRO 3.0-P (Type I) is applicable at temperatures from 180 to 210 °C in a layer thickness of 3 mm, screwed or extruded or inlaid in a layer thickness of 3/5 or 6/8 screwed. During application 500 g/m² drop-on material Potters Europe Echostar® 10 TRM SRT GV 25 (125 - 850 µm) 3:1 must be dropped on to the thermoplastic immediately to reach the required night-time visibility. 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.

Consumption

The consumption with a 3 mm layer thickness is 6.1 kg/m² and width of:

10 cm	610 kg / 1.000 m
12 cm	732 kg / 1.000 m
15 cm	915 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®- Plast PRO 3.0-P is delivered as

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

Powder material 20-kg-polyethylenbags, 42 on a pallet or as

250-kg-big bags

Shelf life of NILA®- Plast PRO 3.0-P Block material is unlimited and shelf life of powder material is one year.

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.

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