

NILA[®]-Plast GP 3.0-P (BASt, Type II)



Thermoplastic road marking material (Type II - marking)

Thermoplastic road marking material (type II - marking) – class P7 onlaid and inlaid - Bundesanstalt für Straßenwesen (BASt) wear simulator testreport No.: 2024 1DH 03.08, suitable for continuously and frequently (up to 15.000 DTV) and rarely (> 15.000 DTV) passed-over markings according to section 5.4 of ZTV M 13

Classification according to ZTV M 13	after application	R5, RW5, Q5, \geq S1, T2
	in use	R3, RW2, Q5, S1, P7
Layer thickness	oblaid	3 mm
	inlaid	3/5 mm and 6/8 mm

Product description

NILA[®]- Plast GP 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 glass beads. NILA[®]- Plast GP 3.0-P is specially designed for road marking with a high night-time visibility in wet conditions (type II-markings).

Testreport

The in-use performance of NILA[®]- Plast GP 3.0-P (Type II) is tested on the wear Simulator using RG2 test of the BASt corresponding to the draft prEN "Wear Simulators".

Example of use

This material is a white, retroreflective, onlaid and inlaid thermoplastic road marking material for motorways, roads, athletic grounds, airports and parking places with asphalt layer. It is suitable for continuously and frequently (up to 15.000 DTV) and rarely (> 15.000 DTV) passed-over markings.

Properties

NILA[®]- Plast GP 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 GP 3.0-P (Type II) with drop-on material Sovitec Echostar[®] 25 1180-212 BCP SRT SiAl (70:30) in accordance with DIN EN 1436:

	after application	in use
day-time visibility	Q5 \geq 200 mcd/ m ² ·lx R5	Q5 \geq 200 mcd/ m ² ·lx
night-time visibility	dry R5 \geq 300 mcd/ m ² ·lx	R3 \geq 150 mcd/ m ² ·lx
	wet RW5 \geq 150 mcd/ m ² ·lx	RW2 \geq 35 mcd/m ² ·lx
skid resistance	S1 \geq 45 SRT-units	

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 5.2 ZTV M 13.

Central Sales

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NILA®-Plast GP 3.0-P (BAST, Type II)

Technical datas

Base	hydrocarbon resin, quartz sand, extender
Solvent	solvent free
Colour	white
Necessary working operations	onlaid, drop-on
Dry weight	100 %
Specific gravity	approx. 2.06 g/cm ³
Softening point Wilhelmi	approx. 101 °C
Nüsseldeformation	approx. 1.0
Skid resistance	≥ 45 SRT-units

Application

NILA®- Plast GP 3.0-P is applicable at temperatures from 180 to 210 °C in a layer thickness of 3 mm, screwed or extruded or screwed and inlaid in layer thickness 3/5 mm or 6/8 mm. During application 500 g/m² drop-on material Sovitec Echostar® 25 1180-212 BCP SRT SiAl (70:30) must be dropped on to the thermoplastic immediately to reach the required night-time visibility. The night-time visibility in wet conditions will be achieved by the rough surface of the onlaid or inlaid thermoplastic and the embedded drop on beads and further on by the greater diameter premix glass beads. The road surface must be dry, clean and 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 air temperature is below +5 °C, the road surface must be warmed before application.

Consumption

The consumption with a 3 mm layer thickness is 6.18 kg/m² and width of:

10 cm	618 kg / 1.000 m
12 cm	742 kg / 1.000 m
15 cm	927 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 GP 3.0-P is delivered as

Block material in approx. 25-kg-coated carton 40 on a pallet

or as

Powder material 20-kg-polyethylenbags 42 on a pallet

or as

Powder material in 250 kg big bags 4 on a pallet

Shelf life of NILA®- Plast GP 3.0-P Block material is unlimited and shelf life of powder material is one year. Labelling in accordance with official regulations is not required.

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.

Rev.: 02/25

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