

NAVIPLAST STRUKTURA

Thick-coat thermoplastic roadmarking

Symbol:

24.30.22-55.77

Standard:

ZN-PCW-1419:2004

Properties:

Naviplast Struktura is sold as a powder composed of pigments, fillers, resin granules and additives. It also contains reflective glass micro beads.

It is applied in a liquid form obtained by melting the material in a given temperature which ensures that it adheres well to the substrate.

Range of application:

Naviplast Struktura is used for applying rumble strips and structural applications. Markings made using the thermoplastic material are especially recommended in areas with heavy traffic e.g. as stop and yield lines, turn and guiding arrows, lane and edge lines as well as zebra crossings.

Application methods:

The melted material can be spread mechanically employing a self-propelled application machine equipped with a special fixture for structural applications.

Consumption:

2-5 kg/m² for a structured road marking.

Functional properties:

Markings made using Naviplast Struktura marking adhere well to the substrate, have a high resistance to abrasion and conditions of atmospheric exposure and the glass beads contained within ensure that reflectivity is maintained throughout the service life of the marking.

The structure created by the marking is irregular in terms of thickness and continuity and at times it does not cover the substrate. This helps increase the visibility of the application during rainfall as water is removed from it easily.

General technical information:

Colour		White
Softening point	[°C]	80-105
Temperature during application	[°C]	190 - 205
Time before traffic can be resumed at 20°C	[min]	3-5
Spreading rate once melted	[cm]	7,5-9,0
Form sold in		granulate

Application:

Apply onto a clean dry bituminous or concrete substrate free of oil and dust, at a temperature of both the air and substrate over 5 °C, and at a relative humidity not exceeding 80 %.

If markings are applied at an ambient temperature below 5°C, the substrate has to be heated.

Before application, the product is first melted in a boiler equipped with a mixer at a temperature of 190-205°C.

Due to the danger of locally overheating the material, it is recommended that a boiler with oil jackets be used equipped with a temperature regulation system. During the heating process the material cannot be exposed to temperatures exceeding 210°C. Once a uniform fluid-like mixture is obtained the material can be applied.

With Naviplast Struktura the thickness and shape of the markings as well as its consumption depend on the application method and equipment parameters.

Reflectivity is obtained by mechanically applying glass beads at a granulation of 100-600 μ m, 125-850 μ m or 400-840 μ m at an amount of 250 to 350g/m², in a way ensuring their proper immersion in the material.

Special attention has to be paid to ensure that the correct temperature of the melted material is maintained when applying the markings. Any significant deviations from the above rules impact the colour, durability and reflectivity of the applied marking.

Packaging:

Polyethylene bags – 20 kg each.

Warranty period:

12 months from the production date if stored in its original packaging and not exposed to direct sunlight.

H&S and fire safety guidelines:

Store the product in its original packaging in a dry, cool and well-ventilated room at a temperature of 0-30 °C. Protect from direct sunlight and other sources of heat and fire.