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NEOTHANE NH





DESCRIPTION



A two component, high solid and fast drying polyaspartic primerenamel. Available in version NEOTHANE 50 with gloss 50 (semi-matt) and NEOTHANE 90 with gloss 90 (high-gloss)

Provides improved productivity at ambient temperature application while combining the anticorrosive performance of epoxy coatings and high aesthetics of UV durable topcoats in a single coat.

Is applied as a single coat direct to correctly prepared substrates, reducing application time, energy consumption and labour costs when compared to two coat applications, or single coat applications which require longer drying time.

COLOUR



According to the RAL, NCS pattern (selected colors)

PROPERTIES

- single coat application with fast handling times
- eliminates the need for costly drying in higher temperatures
- very fast drying time
- high color fastness
- very high resistance to chemical agents (including solutions of acids, bases, gasoline and diesel oil)
- very high resistance to mechanical factors
- water resistance
- resistance to flammable substances
- temperature resistance up to 150°C (short-term growth up to 180°C)
- resistance to aggressive urban, maritime and industrial atmospheres
- reduced emission of volatile organic substances
- good adhesion properties over correctly prepared substrates

USAGE

Specifically designed for use as a single coat primer/finish coating system to protect construction and mining heavy machinery, agricultural equipment, railcars, transportation vehicles, material handling and lifting equipment, pumps, valves, gear units and other small machinery.

SPECIFICATIONS



Density 1,5 ($\pm 0,05$) g/cm³

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VOC content of volatile organic compounds

To 240 g/l

Solvent content

Solid content

80 (±3) Volume %

Covering power, color

stability

For some colors, obtaining full qualitative coverage may require the

Weight %.

application of an additional layer of paint.

Aggressive chemical environment and elevated temperature (above

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100°C) can affect color stability in some shades.

High humidity may cause discoloration of colors containing metallic pigments.

For yellow, orange and red colors it is recommended to use a white or similar topcoat primer.

Working temperature



Coating can work at the temperat ure 150° C in a dry atmosphere. The temperature may rise to 180° C temporarily .

Layer thickness

DFT " dry film thickness"	WFT " wet film thickness"	Theoretical o	consumption	Theoretical performance
[µm]	[µm]	[l/m²]	[kg/m²]	[m²/l]
60	75	0,08	0,11	13,33
120	150	0,15	0,22	6,67
180	225	0,22	0,34	4,44

APPLICATION



Application method

Hydrodynamic spraying

Air spraying parametrs

Recommended number of layers

Thinner

Surface preparation

Brush (small areas with the addition of 20% thinner), roller, pneumatic spray, airless spray.

Nozzle tip	Dilute %	Pressure	
0,011 - 0,019 "	0 – 5 %	100 - 250 Bar	

The width of the sprayed jet, the so-called spray angle, should be chosen taking into account the shape and size of the surface to be painted.

Nozzle tip	Dilute %	Pressure
1,6 - 2,5 "	5 - 10 %	2,5 - 5,0 Bar

The recommended product flow time measured with Ford Cup No. 4 should be compared with those recommended by the spray gun manufacturer.

THINNER NEO production of Malchem.

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Surface	Preparation	
Steel	The surface should be cleaned at least to grade Sa $2^1/_2$ in accordance with PN-EN ISO 8501-1: 2008. Dry substrate, free from traces of corrosion, scale, dust, grease, oil, salt and any other contamination. To degrease the surface, it is recommended to use Cleanmal Top by MALCHEM.	

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Application conditions

- Temperature: minimum substrate 5°C, minimum 3°C above dew point temperature, minimum ambient 5°C
- Humidity: maximum relative air 85%
- Safety: efficient and adequate ventilation in the workplace

Mixing of components



Version IN PLANT			
	Component A: Base	Component B: HARDENER 701	
By weight	100	20	
By volume	100	30	

The above values indicate the capacity of the packaging, not the actual volume of the product in the packaging.

Pot-life of mixture

Drying times (at temp. 20°C and relative humidity 55± 5%)

2 h (in temp. 20±2°C)

For layer DFT 60 (±10%) µm	in temp. 20±2°C and relative humidity 55±5%	in temp. 10±2°C and relative humidity 55±5%
Degree 1	30 min	30 min
Degree 3	2 h	2 h
Degree 5	3h 15min	3h 30min
Completely cure	1 days	1 days
Minimum for applying the next coat	1 h	1 h

These parameters may vary with changing environmental conditions, the number and thickness of the layers. The negative effect on the curing of the coating is, first of all, insufficient temperature and high humidity (rain, condensation of water vapor).

ADDITIONAL INFORMATION

Storage



The material should be stored in original, tightly closed containers, away from possible sources of fire, in places exposed to direct sunlight or elevated temperatures, children should be protected from access to products, storage temperature: from 5°C to 30°C.

Shelf life



The minimum shelf life indicated on the package is the value of the indication, which depends on a number of factors - first of all, the method and temperature of storage. After exceeding the specified date, the quality of the product must be reviewed.

Safety information



Information on the presence, detection of threats, actions during first aid and in case of fire, as well as environmental and legal regulations can be found in the safety data sheet, which can be obtained from the manufacturer Malchem.

Basic security measures

- Read the information on the product packaging.
- Efficient and appropriate ventilation at the workplace.
- Avoid contact with skin and inhalation of vapors.
- Use of costumes, gloves and masks.

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- If the product comes in contact with skin, wash the area with warm water and soap or other detergent.

In case of contact of the product with eyes, rinse immediately with water and seek medical advice immediately.

PRODUCT IS INTENDED FOR PROFESSIONAL USE ONLY

The above information is based on our current knowledge and experience. However, they are not completely exhaustive and complete. We provide them in good faith based on laboratory research and practical experience. However, due to the variety of methods, application and usage conditions, they should be verified in specific applications. The product is intended only for professional and industrial use by persons who have sufficient knowledge and experience in its use. The manufacturer cannot control the conditions under which the product is used. Under applicable regulations, we do not take responsibility for damages caused by using the product in a manner inconsistent with applicable standards and recommendations. Use of the product for purposes other than indicated in this document only and exclusively at the user's own risk. The product information provided is subject to change without notice.