TECHNICAL INFORMATION Update date: 04.05.2021

NEOMAL 20



ALCH

PROTECTIVE & INDUSTRIAL

COATINGS

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Working temperature



MALCHEM PROTECTIVE & INDUSTRIAL COATINGS

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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 consumption		Theoretical performance
[µm]	[µm]	[l/m ²]	[kg/m ²]	[m²/l]
50	90	0,091	0,102	10,99
60	110	0,109	0,122	9,17
110	200	0,200	0,224	5,00

Coating hardness



Gloss grade



≤10% (deep matt)

APPLICATION



Application method

Hydrodynamic spraying

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

Nozzle tip	Dilute %	Pressure		
0,009 - 0,013 "	0 - 10 % *	150 - 200 Bar		
*Depending on the application temperature				

Depending on the application temperature.

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.

Air caravian	Nozzle tip	Dilute %	Pressure
Air spraying parametrs	1,5 - 2,5 mm	5 - 15 % *	2,5 - 5,0 Bar
F	*Depending on the application temperature.		

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Thinner

Recommended

number of layers

Coating enamels

Surface preparation



The recommended product flow time measured with Ford Cup No. 4 for pneumatic spraying is within 25 - 35 seconds.

These parameters should be compared with those recommended by the spray gun manufacturer.

THINNER NEO production of Malchem.

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Products type PURMAL production of Malchem.

Surface	Preparation	
Steel	The surface should be protected with an anti- corrosive primer type EPOXYKOR HS 80 (SF) made by Malchem, the surface to be painted dry, free of grease, dust, traces of corrosion and all other impurities.	
Galvanized steel, aluminum	The galvanized and aluminum surface should be cleaned from the abovementioned impurities, degrease very thoroughly with Malchem CleanMal Top and dried. In addition, it is recommended to lightly sweep the so-called abrasive "Sweeping" or washing with water and ammonia (slightly alkaline pH) and rinsing thoroughly.	

Application conditions

- Temperature: minimum substrate 5°C, minimum 3°C above dew point temperature, minimum ambient 5°C

- Humidity: maximum relative air 80%

- Safety: efficient and adequate ventilation in the workplace

Mixing of components



Ready to use

Pot-life of mixture

Drying times (at temp. 2°C and relative humidity 55±5%)

	Component A: Base	Component B: Hardener 605
by weight	100	22
by volume	100	25

15 minutes (in temp. 20±2°C)

4 hours (in temp. 20±2°C)

For layer DFT 100 (±10%) μm	
Degree 1	2 h
Degree 3	5 h
Completely cure	7 days
Minimum for applying the next coat	1 h

These parameters may vary with changing environmental conditions, the number and thickness of the layers. The negative effect on the

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curing of the coating is, first of all, insufficient temperature and high humidity (rain, condensation of water vapor).

ADDITIONAL INFORMATION

Storage



Shelf life



Safety information



Basic security measures

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.

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.

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.

- 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.

- 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.