



WL1544M

FREIOPLAST-Hydro-Coating

Product description

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| Product technology | water-thinnable 1C coating |
| Application area | e.g. in the mechanical engineering and plant construction sector |
| Substrate | Non-ferrous metals, Steel, Stainless steel |

General product properties

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|--------------------------------|--|--|-----------------|
| Binder-Base | Acrylate-styrene copolymer | | |
| Colour | All common colour shades | | |
| Gloss value | dull matt | 5-15 GU, Angle 85° The degree of gloss is strongly dependent on the structure. The given value refers to a smooth, weakly structured surface. | DIN EN ISO 2813 |
| Viscosity | 1800-2200 mPa*s, spindle 4, 60 revolutions/min. | | DIN EN ISO 2555 |
| pH-Value | 8,5-8,7 | | DIN 19260 |
| Solid mass | 42-46 % | | theoretical |
| Solid content in volume | 31-34 % | | theoretical |
| Reference product | The values given refer to the product with the shade WL1544MRU905. | | |
| Resistance to storage | approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Protect from frost. Open packages are to be used within a short time. | | |
| | The minimum storage stability of each batch is stated on the product label. The material does not necessarily become unusable if stored for longer than this period. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application. | | |



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Application and processing

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| Pretreatment | The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements. | |
| Structure recommendation | Substrate | Stainless steel |
| Note before use | Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water. | |
| Thinning | demineralised water | |
| Dry film thickness | must not exceed 100 µm – risk of reaction bubbles. | |
| Object temperature | 10-30 °C, minimum +3 °C above dew point temperature | |
| Processing conditions | Room temperature 18-22 °C Relative humidity 40-60 % | |
| Airmix spraying | as delivered viscosity Nozzle 11 mm angle 30° Material pressure 100 bar Atomiser pressure 3-4 bar | |
| High pressure spraying | as delivered viscosity nozzle 1,4 mm spray pressure 4 bar | |
| Material usage | without application loss 275-295 g/m ² layer thickness 80 µm | theoretical |
| Oven drying | up to 80 °C possible | |
| Air drying | 18-22 °C, 40-60 % relative humidity | |
| Dust drying | after 30 minutes (degree of dryness 1) | DIN EN ISO 9117-5 |
| Dry to the touch | after 45 minutes (degree of dryness 4) | DIN EN ISO 9117-5 |
| Full drying | after 7 day/s (pendulum damping) | DIN EN ISO 1522 |
| Cleaning of equipment | immediately with water - possibly with addition of 5-10 % by weight EFD cleaning agent 400916, dried-on equipment with org. solvents, e.g. EFD thinner 400424. | |

Further processing of coated pieces

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| Repainting | possible with same quality, dry at the earliest after matting. |
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Our technical data sheets are to provide you with advice based on our latest state of knowledge. This guidance does not release you from your own obligation to test our products for their suitability for your intended purposes and applications. The sale of our products is in accordance with our terms of business, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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Comments

EFD info

Further technical information can be found in the EFD Info. No. 111.

Work-and Healthprotection

The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.

Test conditions

All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge and experience. We have no direct influence on the application itself. Please do not hesitate to contact us for further information.

The information provided here contains reference values and does not constitute a specification.