

MONOPUR® F2373

One-pack PUR zinc dust primer Humidity-setting

Product description

Economical, fast-drying, one-pack, humidity-setting, aromatic polyisocyanate-based zinc dust primer. Since this product reacts and hardens with the air moisture, application is possible at a relative air humidity of up to 90%. It can also be applied at a lower temperature limit of 0° C. With suitable top coatings sustained thermal resistance is provided up to 140° C. Monopur F2373 is used as a primer for steel. In combination with top coatings a coating system with excellent corrosion protection and high mechanical strength is achieved.

Application

Airless spraying:

The material can be applied in the condition delivered with professional airless equipment. If necessary, it can be thinned with 5% V2 thinner.

Pressure: 120 - 150 bar (guide values)

Nozzle: narrow = 218, medium = 418, wide = 618 (guide values)

Conventional air spraying:

Spraying viscosity adjustable with V2 thinner. The amount added is normally 10 - 15%, but is dependent on nozzle diameter, spraying pressure and ambient conditions.

Pressure: 3 - 4 bar (guide values)

Nozzle: 1.5 - 2 mm (guide values)

Brushing and rolling:

Can be applied in the condition delivered.

Monopur F2373 reacts with the air humidity. To prevent thickening, opened containers must be used immediately. A skin can form in opened, uncovered containers. During the coating work the object temperature must be at least 3° C above dew point.

Overcoating

With a dry coat thickness of 60 µm Monopur F2373 can be overcoated with itself or with suitable one-pack humidity-setting PUR top coatings after 3 hours, and with suitable two-pack polyurethane top coatings after 5 hours.

If other covering coats are applied, in particular of epoxy resin-based paint, prior to overcoating Monopur F2373 must be allowed to harden for 16 hours.

Special notes

Our instructions are referring to normal climate 23/50. The information contained in this technical data sheet is based on general technical standards and is meant for specialists. Any changes in the recommended operating procedures or specified environmental conditions may have a significant impact on the results. Our guarantee covers only the quality of the material supplied. We do not accept any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore, please note date of issue of our technical data sheet and ask for latest edition (also available directly from our website).

Safety measures

Monopur F2373 contains solvents and is combustible. Protect from heat and keep away from naked flames. Ensure that ventilation is adequate. Do not inhale vapours. The Safety Data Sheet as well as the general regulations regarding work hygiene and operational measures must be observed.

Technical data

Binder	Humidity-setting aromatic Polyisocyanate
Pigmentation	Zinc dust powder
Finish	Matt
Color	Zinc grey
Substrate	Steel, blasting according to ISO 8501-1, Sa 2 ½. The surface must be dry and free of grease and dust.
Application conditions	Relative air humidity between 30 - 90%. Temperature between 0° C (ice-free surfaces) and 50° C.
Thinner	V2 The use of other thinners can lead to defects and loss of quality.
Packaging	25 kg disposable containers - on request in drums of 350 kg net
Storage stability	6 months in original, unopened containers stored at a temperature of 20 °C.
Waste disposal	Residues and expired material are considered as special refuse and must be treated as such, VeVa-code 08 01 11.

Components	1
Drying (23 °C and 50 % relative air humidity)	Dust dry approx. 15 minutes Touch dry approx. 2 hours Drying times are dependent on coat thicknesses, substrate and air temperatures and air humidity.

Solids content	by weight : approx. 79 % by volume: approx. 61 %
Density (20 °C)	approx. 2.0 kg/l
Theoretical consumption	200 g/m ² @ 60 µm

	Monopur F2373	V2
VOC value	21,2 %	100 %

(replaces issue 02.12)

06.23