MEGENAX® HYDRO PRIMER

PRODUCTINFORMATION

Designation of type	⇒ WG 301, WG 701	State of 4/18

Product description

- ⇒ Efficient, water based 1-component anticorrosion primer
- ⇒ Low in solvents, contains no lead, cadmium, chromate
- ⇒ Contains no NMP (N-methylpyrrolidone), APEO (alkylphenol ethoxylates)
- ⇒ Excellent adhesion to steel and cast iron
- ⇒ Simple processing, fast drying
- ⇒ High stability on vertical surfaces
- ⇒ Fast water resistance in early outdoor weathering
- ⇒ Recoatable with 1-component water and solvent based acrylic resin coats

Application area

⇒ General industry, protection against corrosion

Binder

⇒ Water-thinnable, fatty acid modified PUR dispersion

Substrate/Preparation

- ⇒ Steel: at least degrease, better hand or eccentric sanding St 2-3 (P80- P220) or sand blasted to Sa 2 ½ DIN EN ISO 12944, part 4
- ⇒ Cast iron: sand blasted to Sa 2 ½ DIN EN ISO 12944, part 4
- ⇒ All surfaces dry, free of fat, oil, grease and dirt

Processing

- ⇒ Gravity feed gun: 1.6-2.0 mm nozzle, 3-4 bar atomisation pressure, 0-10 % VE-water
- ⇒ HVLP: 1.7-2.2 mm nozzle, 1.5-2.0 bar atomisation pressure, 0-10 % VE-water
- ⇒ Double-diaphragm pump: 1.0-1.2 mm nozzle, 2-4 bar atomisation pressure, material pressure 0.8-2.0 bar, 0-10 % VE-water
- ⇒ Airmix: 0.28-0.33 mm nozzle, 3-4 bar atomisation pressure, material pressure from 70 bar up, 0-5 % VE-water
- ⇒ Airless: from 0.23 mm nozzle up, material pressure from 100 bar up, 0-5 % VE-water
- ⇒ Electrostatic: possible with electrostatics suitable for water based coats; **no processing with conventional electrostatics for solvent based coats: danger!**
- ⇒ Dependent on film thickness 1-2 spraying cycles, 3-6 minutes intermediate flash off time
- ⇒ Ambient temperature at least + 10° C, relative air humidity: max. 75 %
- ⇒ Object temperature: at least. + 5° C and at least 3° C above the dew point

Viscosities

⇒ Viscosity at delivery:	thixotropic
⇒ Compressed-air spraying:	30-40 sec. 4 mm / DIN
⇒ Double-diaphragm pump:	40-50 sec. 4 mm / DIN
⇒ Airmix, Airless:	undiluted (ca. 1.700 mPas)
⇒ Dipping:	18-22 sec. 4 mm / DIN

Thinner

⇒ VE-water

pH-value

⇒ 8.5 - 8.6

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Drying time at 20°C	⇒ Dust-dry after approx. 30-40 minutes at relative air humidity 50-60 % ⇒ Ready for installation after approx. 90-120 minutes at relative air humidity 50-60% ⇒ Complete drying after approx. 18- 36 hours at relative air humidity 50-60 % ⇒ Good aeration and ventilation required throughout the entire drying time
Recoatability	⇒ With 1-component water based acrylic resin coats after 3-4 hours: for example WLT ⇒ With some 1-component solvent based acrylics after 24 hours: for example DAC ⇒ In case of doubt, check the recoatability before coating
Colours	⇒ WG 301 red brown, WG 701 light grey ⇒ Limited availability for both types
Degree of gloss	⇒ Flat
Specific weight	⇒ Ø 1.37 g/cm³
Solid matter content	⇒ Ø 71 % (percent by weight)
Solvent content	⇒ < 3 % (percent by weight)
Film thickness	⇒ Spraying 50-100 µm dry film thickness / 105-210 µm wet film thickness ⇒ Dipping 15- 25 µm dry film thickness/ 30- 50 µm wet film thickness ⇒ At sand blasted to Sa 2½ (roughness depth 45 µm) mind. 60 µm dry film thickness
Theoretical coverage	⇒ Approx. 6.0 m²/kg at 50 µm dry film thickness
Practical consumption	⇒ Compressed-air spraying: approx.0.24 kg/m² or 4.2 m²/kg at 50 µm dry film thickness ⇒ Airless: approx.0.33 kg/m² or 3.0 m²/kg at 80 µm dry film thickness
VOC-value ready for use	⇒ 100 g/l ⇒ Limiting value paint material for buildings: 140 g/l 2004/42/IIA(i)(140)100 ⇒ Limiting value industrial coating: no specification Coating of other metal and plastic surfaces
Standard packaging	⇒ 30 kg
Shelf life	⇒ At + 10 to + 30° C and unopened packaging ½ year ⇒ Store in frost-free conditions
Material safety data sheet	⇒ No. 062
Flash point	⇒ Not applicable