

# AQUANAX UNIVERSAL HYDRO PRIMER

## PRODUCT INFORMATION



<b>Designation of type</b>	⇒ WG 712	State of 4/18
<b>Product description</b>	⇒ Water based 1-component primer with high protection against corrosion ⇒ Low in solvents, contains no lead, cadmium, chromate, methylethyl ketone oxime ⇒ Contains no NMP (N-methylpyrrolidone), APEO (alkylphenol ethoxylates) ⇒ Excellent adhesion to steel, aluminium, hot dip galvanized steel, stainless steel and so on ⇒ Simple processing, fast drying ⇒ High stability on vertical surfaces ⇒ Fast water resistance in early outdoor weathering ⇒ Excellent values for salt spray and tropic tests ⇒ Recoatable with some 1- and 2-component water and solvent based coats	
<b>Application area</b>	⇒ General industry, protection against corrosion	
<b>Binder</b>	⇒ Water-thinnable, epoxy modified acrylic resin	
<b>Substrate/Preparation</b>	⇒ 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 ⇒ Hot dip galvanized steel: sweeping, hand sanding or wetting agent washing DIN EN ISO 12944, part 4 ⇒ Aluminium: sweeping, chromating or hand sanding ⇒ Stainless steel: at least degrease, better slight sanding or pickling ⇒ All surfaces dry, free of fat, oil, grease and dirt	
<b>Processing</b>	⇒ 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: 0.23-0.33 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; <b>no processing with conventional electrostatics for solvent based coats: danger!</b> ⇒ Dependent on film thickness 1-2 spraying cycles, 3-6 min. intermediate flash off time ⇒ Ambient temperature at least + 10° C, relative air humidity: max. 75 % ⇒ Object temperature: at least. + 10° C and at least 3° C above the dew point	
<b>Viscosities</b>	⇒ Viscosity at delivery:	ca. 4.000 (± 500) mPas
	⇒ Compressed-air spraying:	30-40 sec. 4 mm / DIN
	⇒ Double-diaphragm pump:	40-50 sec. 4 mm / DIN
	⇒ Airmix, Airless:	undiluted; approx. 4.000 (± 500) mPas
	⇒ Dipping:	18-22 sec. 4 mm / DIN

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<b>Thinner</b>	⇒ VE-water
<b>pH-value</b>	⇒ 8.5 - 8.6
<b>Drying time at 20° C</b>	⇒ Dust-dry after approx. 20-30 minutes at relative air humidity 50-60 % ⇒ Ready for installation after approx. 60-90 minutes at relative air humidity 50-60 % ⇒ Complete drying after approx. 12-24 hours at relative air humidity 50-60 % ⇒ Good aeration and ventilation required throughout the entire drying time
<b>Recoatability</b>	⇒ With water based 1-component acrylic resin and 2-component PUR coats after 2-3 hours: for example WLT ⇒ With solvent based 1-component acrylic resin and 2-component PUR coats after 12-16 hours: DAC, DGP, DMP, DCP ⇒ In case of doubt, check the recoatability before coating
<b>Colours</b>	⇒ Grey (Limited availability)
<b>Degree of gloss</b>	⇒ Silk-matt
<b>Specific weight</b>	⇒ Approx. 1.25 g/cm <sup>3</sup>
<b>Solid matter content</b>	⇒ Approx. 48 % (percent by weight)
<b>Solvent content</b>	⇒ < 5 % (percent by weight)
<b>Film thickness</b>	⇒ Spraying 50-100 µm dry film thickness / 160-320 µm wet film thickness ⇒ Dipping 15- 25 µm dry film thickness / 50- 80 µm wet film thickness ⇒ At sand blasted to Sa 2½ (roughness depth 45 µm) at least. 60 µm dry film thickness
<b>Theoretical coverage</b>	⇒ 5.2 m <sup>2</sup> /kg at 50 µm dry film thickness
<b>Practical consumption</b>	⇒ Compressed-air spraying: approx.0.28 kg/m <sup>2</sup> or 3.6 m <sup>2</sup> /kg at 50 µm dry film thickness ⇒ Airless: approx.0.38 kg/m <sup>2</sup> or 2.6 m <sup>2</sup> /kg at 80 µm dry film thickness
<b>VOC-value ready for use</b>	⇒ 135 g/l ⇒ Limiting value paint material for buildings: 140 g/l 2004/42/IIA(i)(140)135 ⇒ Limiting value industrial coating: no specification Coating of other metal and plastic surfaces
<b>Standard packaging</b>	⇒ 30 kg
<b>Shelf life</b>	⇒ At+ 10 to + 30° C and unopened packaging ½ year ⇒ Store in frost-free conditions
<b>Material safety data sheet</b>	⇒ No. 062
<b>Flash point</b>	⇒ Not applicable

All data are based on conscientious laboratory tests and experience. However, no liability can be derived from this and does not release the user from his own checks. The latest version supersedes all previous versions.