

Designation of type	⇒ WLT	State of 4/18
Product description	⇒ Water based 1-component top coat with high protection against corrosion ⇒ As single-coat paint or top coating with primer ⇒ 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	
Application area	⇒ General industry, construction of vehicles, protection against corrosion	
Binder	⇒ Water thinnable, epoxidized acrylic resin	
Substrate/Preparation	⇒ As coating system with primer: AQUANAX Universal-Hydro-Primer WG 712 ⇒ 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 2½ 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 slightly sanding or pickling ⇒ 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 0.8-1.0 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 120 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! ⇒ For single-coat painting, pre-spray once in difficult-to-reach areas ⇒ 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 + 10° C and at least 3° C above the dew point	

AQUARAL HYDRO LACQUER

PRODUCT INFORMATION



Viscosities	⇒ 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; ca. 4.000 (± 500) mPas
	⇒ Dipping:	18-22 sec. 4 mm / DIN
Thinner	⇒ VE-water	
pH-value	⇒ 8.5-8.6	
Drying time at 20° C	⇒ 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	
Drying time at 80° C	⇒ Flash off time approx. 15-20 minutes, heat hardening approx. 25 minutes	
Colours	⇒ All RAL-colours from 1.000 kg	
Degree of gloss	⇒ Silk-matt	
Specific weight	⇒ Ø 1.2 g/cm ³ (± 5 % dependent on colour)	
Solid matter content	⇒ Ø 48 % (percent by weight; ± 5 % dependent on colour)	
Solvent content	⇒ < 5 % (percent by weight)	
Film thickness	⇒ Spraying 40-80 µm dry film thickness / 100-200 µm wet film thickness	
	⇒ Dipping 15-25 µm dry film thickness / 40- 65 µm wet film thickness	
	⇒ At sand blasted to Sa 2½ (roughness depth 45 µm) at least 60 µm dry film thickness	
Theoretical coverage	⇒ Ø 6.7 m ² /kg at 40 µm dry film thickness	
Practical consumption	⇒ Compressed-air spraying: approx. 0.21 kg/m ² or 4.7 m ² /kg at 40 µm dry film thickness	
	⇒ Airless: approx. 0.37 kg/m ² or 2.7 m ² /kg at 80 µm dry film thickness	
VOC-value ready to use	⇒ 138 g/l	
	⇒ Limiting value paint material for buildings: 140 g/l	2004/42/IIA(i)(140)138
	⇒ Limiting value industrial coating: no specification Coating of other metal and plastic surfaces	
Standard packaging	⇒ 30 kg / 200 kg	

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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