

Epoxy Resin Systems

Plastic Metal

WEICON Anti-Static



Wear protection system | high chemical resistance | antistatic

WEICON Anti-Static is a liquid, antistatic 2-component epoxy resin system with a high content of fine ceramic fillers. It is used to protect surfaces against wear and corrosion. By combining high-strength particles with a viscoplastic polymer matrix, the system offers a high level of wear protection. It has good chemical resistance and high abrasion resistance. The coating adheres very well even under vibration and elongation on a wide variety of surfaces and does not drip. The wear protection system is free of tar and solvents and cures almost without shrinkage. Anti-Static is suitable for coating a wide variety of parts, such as rollers, pumps, chutes, conveyors, lifting screws, separators, hoppers, propellers, fans, and heat exchangers.

WEICON Anti-Static is suitable in combination with one of the other WEICON Plastic Metal types for a system build-up as an antistatic surface finish.

Characteristics

Base	ероху
Filler	aluminium oxide
Texture	liquid
Colour	black
Shelf life	24 mon.

Component temperature >3 °C above dew point Relative air humidity < 85% Mixing ratio by weight 100:32 Mixing ratio by volume 100:54 Viscosity of the mixture at +25 °C 15.000-20.000 mPars Density of the mixture 1,5 g/cm³ Consumption Layer thickness 1.0 mm 1,5 kg/m² Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - - Measured after curing at 24 h RT + 24 h - Compiles strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa E-modulus (tensile) DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 46	Processing		
Relative air humidity	Processing temperature		+15 °C to +40 °C
Relative air humidity < 85%	Component temperature		>3 °C above dew
Mixing ratio by weight 100:32 Mixing ratio by volume 100:54 Viscosity of the mixture at +25 °C 15.000-20.000 mPa·s Density of the mixture 1,5 g/cm³ Consumption Layer thickness 1.0 mm 1,5 kg/m² Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing 4 h RT + 24 h - Measured after curing at 24 h RT + 24 h - Measured after curing at 24 h RT + 24 h 60 °C 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D)			point
Mixing ratio by volume 100:54 Viscosity of the mixture at +25 °C 15.000-20.000 mPa·s Density of the mixture 1,5 g/cm² Consumption Layer thickness 1.0 mm 1,5 kg/m² Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h Mechanical properties after curing 24 h RT + 24 h G0 °C	Relative air humidity		< 85%
Viscosity of the mixture at +25 °C 15.000-20.000 mPars Density of the mixture 1,5 g/cm³ Consumption Layer thickness 1.0 mm 1,5 kg/m² Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bendius strength DIN EN ISO 604 52 MPa Bendius strength DIN EN ISO 4624 19,6 MPa Taber Test DIN EN ISO 9352 (H18, 1 kg, 10,4 g/ 0,3 cm³	Mixing ratio by weight		100:32
Density of the mixture	Mixing ratio by volume		100:54
Consumption Layer thickness 1.0 mm 1,5 kg/m² Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa 200-2500 MPa Compressive strength DIN EN ISO 527-2 2200-2500 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 48 MPa Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1 kg	Viscosity of the mixture	at +25 °C	15.000-20.000 mPa-s
Max. layer thickness per step 10 mm Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing	Density of the mixture		1,5 g/cm ³
Curing Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1 kg, 10,4 g / 0,3 cm³ 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 32 MPa 34 MPa Steel 1.0338 sandblasted 24 MPa 34 MPa Aluminium sandblasted 24 MPa 34 MPa	Consumption	Layer thickness 1.0 mm	1,5 kg/m²
Pot life at 20 °C, 500 g batch 30 min. Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 833-3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 0,4 g / 0,3 cm³ 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 3 teel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 27 MPa Aluminium sandblasted 3 °C to +120 °C <	Max. layer thickness	per step	10 mm
Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 1,8 % E-modulus (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 527-2 2200-2500 MPa Bending strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 22007-4 0,573 W/m-K Heat capacity DIN EN ISO 22007-4 1,378 J/(g-K) Electrical parameters	Curing		
Additional layer after (35 % strength) 6 h Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 1,8 % E-modulus (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 527-2 2200-2500 MPa Bending strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 22007-4 0,573 W/m-K Heat capacity DIN EN ISO 22007-4 1,378 J/(g-K) Electrical parameters	Pot life	at 20 °C, 500 g batch	30 min.
Working strength after (80 % strength) 12 h Final strength (100 % strength) 36 h Shrinkage 0,09 % Mechanical properties after curing	Additional layer after	-	6 h
Shrinkage 0,09 % Mechanical properties after curing - Measured after curing at 24 h RT + 24 h 60 °C Tensile strength DIN EN ISO 527-2 39 MPa Elongation at break (tensile) DIN EN ISO 527-2 1,8 % E-modulus (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 10,4 g / 0,3 cm³ 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 24 MPa Steel 1.0338 sandblasted 24 MPa Steel 1.0338 sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after tempering (at 120 °C) (DSC) 49 °C Heat deflection resistance DIN EN ISO 22007-4 0,573 W/m·K H	Working strength after	` ,	12 h
Mechanical properties after curing - Measured after curing at - Measured after as - Measured afte	Final strength	(100 % strength)	36 h
- Measured after curing at - Measured after at - Measured at	Shrinkage		0,09 %
- Measured after curing at - Measured after at - Measured at	Mechanical properties after co	urina	
Color		9	24 h RT + 24 h
Elongation at break (tensile) Elongation at break (tensile) E-modulus (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 10,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted Galvanized steel Thermal parameters Temperature resistance 735 °C to +120 °C Tg after curing at room (DSC) Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters			
E-modulus (tensile) DIN EN ISO 527-2 2200-2500 MPa Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 10,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 27 MPa Aluminium sandblasted 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Tensile strength	DIN EN ISO 527-2	39 MPa
Compressive strength DIN EN ISO 604 52 MPa Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 24 MPa Steel 1.0338 sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature 10 MEN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K)	Elongation at break (tensile)	DIN EN ISO 527-2	1,8 %
Bending strength DIN EN ISO 178 48 MPa Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 24 MPa Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K)	E-modulus (tensile)	DIN EN ISO 527-2	2200-2500 MPa
Hardness (Shore D) 83±3 Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 24 MPa Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature 19 C Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K)	Compressive strength	DIN EN ISO 604	52 MPa
Adhesive strength DIN EN ISO 4624 19,6 MPa Taber Test DIN ISO 9352 (H18, 1 kg, 1000 rotations) 0,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 24 MPa Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K)	Bending strength	DIN EN ISO 178	48 MPa
Taber Test DIN ISO 9352 (H18, 1 kg, 10,4 g / 0,3 cm³ 1000 rotations) Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Hardness (Shore D)		83±3
1000 rotations Lap shear strength material thickn. 1,5mm DIN EN 1465 Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters	Adhesive strength	DIN EN ISO 4624	19,6 MPa
Steel 1.0338 sandblasted 24 MPa Stainless steel V2A sandblasted 27 MPa Aluminium sandblasted 14 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Taber Test		0,4 g / 0,3 cm ³
Stainless steel V2A sandblasted Aluminium sandblasted Galvanized steel Thermal parameters Temperature resistance Tg after curing at room temperature Tg after tempering (at 120°C) Heat deflection resistance DIN EN ISO 22007-4 Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Lap shear strength material thic	kn. 1,5mm DIN EN 1465	
Aluminium sandblasted 6 MPa Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Steel 1.0338 sandblast	red	24 MPa
Galvanized steel 6 MPa Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Stainless steel V2A sar	ndblasted	27 MPa
Thermal parameters Temperature resistance -35 °C to +120 °C Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Aluminium sandblasted	t d	14 MPa
Temperature resistance Tg after curing at room (DSC) Tg after curing at room (DSC) Tg after temperature Tg after tempering (at 120°C) Heat deflection resistance DIN EN ISO 75-2 Thermal conductivity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Galvanized steel		6 MPa
Tg after curing at room (DSC) 49 °C temperature Tg after tempering (at 120 °C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Thermal parameters		
temperature Tg after tempering (at 120°C) (DSC) 63 °C Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Temperature resistance		-35 °C to +120 °C
Heat deflection resistance DIN EN ISO 75-2 39 °C Thermal conductivity DIN EN ISO 22007-4 0,573 W/m·K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Tg after curing at room temperature	(DSC)	49 °C
Thermal conductivity DIN EN ISO 22007-4 0,573 W/m-K Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Tg after tempering (at 120°C)	(DSC)	63 °C
Heat capacity DIN EN ISO 22007-4 1,378 J/(g·K) Electrical parameters	Heat deflection resistance	DIN EN ISO 75-2	39 °C
Electrical parameters	Thermal conductivity	DIN EN ISO 22007-4	0,573 W/m·K
	Heat capacity	DIN EN ISO 22007-4	1,378 J/(g·K)
	Electrical parameters		
	Resistance	DIN EN 62631-3-1	2,32 · 10^7 Ω·m
,	Magnetic		,

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Surface pre-treatment

The successful application of WEICON Anti-Static depends on the thorough pre-treatment of the surfaces. This is the most important factor for overall success. Dust. dirt. oil. grease, rust and moisture or wetness have a negative impact on the adhesion. Therefore, before processing WEICON Anti-Static, the following points must be observed: The areas to be bonded or repaired must be free of any oil, grease, dirt, rust,

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the requested properties are recommended. A claim cannot be derived from them.

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WEICON

Epoxy Resin Systems

Plastic Metal

WEICON Anti-Static

oxides, paint and other impurities or residues. For cleaning and degreasing, we recommend WEICON Cleaner Spray S.

Smooth and particularly heavily soiled surfaces should additionally be treated by mechanical surface pre-treatment, e.g. by grinding or preferably by blasting. In case of blasting, the surface should be brought to a degree of purity of SA 2 ½ - "Near White Blast Cleaning" (according to ISO 8501/1-2, NACE, SSPC, SIS). In order to achieve an optimum surface roughness of 75 - 100 µm, angular, disposable blasting media (aluminum oxide, corundum) should be used. The surface quality is negatively influenced by the use of reusable blasting media (slag, glass, quartz), but also by ice blasting. The air for blasting must be dry and oil-free. Metal parts that have come into contact with sea water or other salt solutions should first be rinsed thoroughly with demineralised water and, if possible, left to rest overnight so that all salts can be dissolved from the metal. Before each application of WEICON Anti-Static, a test for soluble salts should be carried out according to the Bresle method (DIN EN ISO 8502-6). The maximum amount of soluble salts remaining on the substrate should not exceed 40 mg/m². Heating and repeated blasting of the surface may be necessary to remove all soluble salts and moisture. After each mechanical pre-treatment, the surface should be cleaned again with WEICON Cleaner Spray S and protected from further contamination until the coating is applied. Areas where no adhesion to the substrate is desired must be treated with silicone-free mould release agents. For smooth surfaces, we recommend WEICON Mould Release Agent Liquid F 1000 or, for porous surfaces, WEICON Mould Release Agent Wax P 500. After the surface pre-treatment, WEICON Anti-Static should be applied as soon as possible (within one hour) to avoid oxidation, flash rust or new contamination.

Mixing

Before adding the hardener, the resin needs to mixed with the fillers thoroughly and without creating bubbles. Then mix the resin and hardener together thoroughly and bubble-free for at least four minutes at 20°C (68°F). The included processing spatula or a mechanical mixer, such as a mortar stirrer, can be used for this purpose. With mechanical mixers, a low speed of max. 500 rpm should be used. The components should be stirred until a homogeneous mixture is achieved. The mixing ratio of the two components must be strictly observed, as otherwise, strongly deviating physical values will result (max. deviation +/- 2 %). Only prepare a batch as large as can be processed within the pot life of 30 minutes. The specified pot life refers to a material batch of 500 g and 20°C (68°F) material temperature. Mixing larger quantities or higher processing temperatures will result in faster curing due to the typical reaction heat of epoxy resins.





Application

For processing, we recommend an ambient temperature of 20°C (68 °F) at less than 85% relative humidity. For a thin precoat, work WEICON Anti-Static intensively into the surface in crosswise layers by using the Contour Spatula Flexy, in order to achieve maximum adhesion. By means of this technique, the epoxy resin penetrates well into all cracks and roughness depths. Afterwards, further applications can be carried out straight away, until the desired layer thickness is reached. Make sure that the epoxy resin is applied evenly and without air bubbles. To fill large gaps or holes, fibreglass, expanded metal or other mechanical fixing materials should be used. Finally, the surface can be smoothed easily with the help of a PE film and a rubber roller.

Curing

Final hardness is reached after 48 hours at 20°C (68°F) at the latest. At lower temperatures, the curing can be accelerated by evenly applying heat up to max. 40°C (104°F), e.g. with a heating pack, hot air blower or fan heater. Higher temperatures shorten the curing time. The following rule of thumb applies: Each increase by +10°C (50°F) above room temperature (20°C/68°F) will decrease the curing time by half. Temperatures below 16°C (61°F) increase the curing time, until at approx. 5°C (41°F) and below, almost no reaction will take place at all.

Storage

Store WEICON Anti-Static at room temperature in a dry place. Unopened containers can be stored at temperatures of +18°C to +28°C for at least 24 months after delivery date. Opened containers must be used up within 6 months.

Scope of delivery

Processing Spatula | Instructions for use | Gloves | Resin & Hardener

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the requested properties are recommended. A claim cannot be derived from them.



Epoxy Resin Systems Plastic Metal

WEICON Anti-Static

Accessories

10039667

10045523

10000147 Cleaner Spray S, 500 ml, transparent 10000347 Cleaner S, 5 L, colourless, transparent 10024313 Surface Cleaner, 400 ml, transparent Surface Cleaner, 5 L, transparent 10025288 Mould Release Agent Liquid F 1000, 250 ml, 10026647 white, milky 10026712 Mould Release Agent Wax P 500, 150 g Repair Stick Multi-Purpose, 115 g, vintage white 10053995 Glass Fibre Cloth Tape, 1 PCE, white 10000913 Processing Spatula, 1 PCE 10010887 10022562 Processing Spatula, 1 PCE 10059417 Brush 35 short, flat, Plastic Metal, 1 PCE 10001978 Stirrer Stainless Steel, 1 PCE Pump Dispenser WPS 1500, 1 PCE 10016002 Cartridge Gun, 1 PCE 10000441 Empty cartridge, 1 PCE 10002034

Cable Scissors No. 35, 1 PCE

Processing Kit, 1 PCE

Recommended equipment

angle grinder fabric tape
blast machine brush
heat pocket rubber roller
hot or fan heater foam roller
smoothing trowel, spatula
PE film 0.2 mm

Conversion table

Available sizes

10062957 WEICON Anti-Static, 200 g, black 10062958 WEICON Anti-Static, 0,5 kg, black 10062959 WEICON Anti-Static, 2 kg, black

	WEICON A	WEICON B	WEICON BR	WEICON C	WEICON F	WEICON F2	WEICON HB 300	WEICON HT 111	WEICON SF	WEICON ST	WEICON TI	WEICON UW	WEICON WR2	WEICON HP	WEICON Fire Safe	WEICON Anti-Static	WEICON Food Grade	WEICON Anti-Stick	WEICON Ceramic BL	WEICON GL	WEICON GL-S	WEICON Ceramic W	WEICON Ceramic HC 220	WEICON WP	WEICON WR	WEICON CBC
Repair and moulding	х	х	х	х	х	х	х	х	х	х	х	х	х													
Adhesive				х	х		х	х		х				х	х											
Wear, erosion and corrosion protection – abrasion-resistant coating																x	x	x	x	x	х	x	x	х		
Casting, relining and gap compensation – casting and injecting potting compound	х					х							х												x	х

To the product detail



Note
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Epoxy Resin Systems Plastic Metal

WEICON Anti-Static

Chemical resistance of WEICON Plastic Metals after curing* (Excerpt)

Exhaust fumes	+	Potassium carbonate	+
Acetone	0	Potassium hydroxide 0-20 % (caustic potash)	+
Ethyl ether	+	Milk of lime	+
Ethyl alcohol	0	Carbolic acid	-
Ethylbenzene	-	Creosote oil	-
Alkalis (alkaline substances)	+	Cresylic acid	-
Hydrocarbons, aliphatic (petroleum derivatives)	+	Magnesium hydroxide	+
Formic acid >10 % (methanoic acid)	-	Maleic acid (cis-ethylenedicarboxylic acid)	+
Ammonia anhydrous 25%	+	Methanol (methyl alcohol) <85 %	-
Amyl acetate	+	Mineral oil	+
Amyl alcohol	+	Naphthalene	-
Hydrocarbons, aromatic (benzene, toluene, xylene)	+	Naphthene	-
Barium hydroxide	+	Sodium carbonate (soda)	+
Petrol (92-100 octane)	+	Sodium bicarbonate (sodium hydrogen carbonate)	+
Hydrobromic acid <10 %	+	Sodium chloride (table salt)	+
Butyl acetate	+	Sodium hydroxide >20 % (caustic soda)	0
Butyl alcohol	+	Caustic soda	+
Calcium hydroxide (slaked lime)	+	Heating oil, diesel	+
Chloroacetic acid	-	Oxalic acid <25 % (ethanedioic acid)	+
Chloroform (trichlormethane)	0	Perchloraethylene	О
Chlorosulphuric acid (wet and dry)	-	Kerosene	+
Chlorinated water (swimming pool concentration)	+	Oils, vegetable and animal	+
Hydrochloric acid	+	Phosphoric acid <5%	+
Chromium bath	+	Phthalic acid, phthalic anhydride	+
Chromic acid	+	Crude oil	+
Diesel fuels	+	Nitric acid <5%	0
Mineral oil and mineral oil products	+	Hydrochloric acid <10 %	+
Acetic acid diluted <5%	+	Sulphur dioxide (wet and dry)	+
Ethanol <85 % (ethyl alcohol)	+	Carbon disulphide	+
Greases, oils and waxes	+	Sulphuric acid <5%	0
Hydrofluoric acid diluted	0	White spirit	+
Tannic acid diluted <7%	+	Carbon tetrachloride (tetrachloromethane)	+
Glycerin (trihydroxipropane)	+	Tetralin (tetrahydronaphthalene)	0
Glycol	0	Toluene	-
Humic acid	+	Hydrogen peroxide <30 % (hydrogen superoxide)	+
Impregnating oils	+	Trichloraethylene	0
Potash	+	Xylene	-

^{+ =} resistant 0 = for a limited time - = not resistant *The storage of all WEICON Plastic Metal types was carried out at +20°C chemical temperature.

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