UNIGRIP PHYSICAL PROPERTIES

	Unigrip Super Guard	Unigrip Super Metal Filler	Unigrip Hi-Temp Putty	Unigrip FastSteel Putty	Unigrip Pipe Tape	Unigrip Exhaust Repair Kit	Unigrip AquaGuard	Unigrip Top coat	Unigrip PWS Clear-Semi matt-Matt
Application Type	Epoxy Coating	Heavy duty filler compound	Epoxy Putty	Epoxy Putty	Fiberglass tape	Cold weld paste	Epoxy Coating	Polyurethane Coating	Polyurethane Coating
Consistency	Fluid	Paste	Paste	Paste	na	fluid/paste like	Fluid	Fluid	Fluid
Application by	brush-roller-spray	spatula	hand/knead	hand/knead	hand	spatula	brush-roller-spray	brush-roller-spray	brush-roller-spray
Mixing Ratio Vol.	Pre-mixed (or 2:1)	mix 1:1	mix 1:1	mix 1:1	na	Pre-mixed	Pre-mixed	mix 4:1	mix 3:1
Max Temperature	356 °F (180 °C)	248 °F (120 °C)	500 °F (260 °C)	300 °F (150 °C)	300 °F (150 °C)	2372 °F (1300 °C)	300 °F (150 °C)	300 °F (150 °C)	300 °F (150 °C)
Potlife @ 68°F (20 °C)	65 min	20-30 min	15-20 min	10-15 min	5 min	20-30 min	45-55 min	1-2 hrs	2-3 hrs
Curing time / dust free @ 68°F (20 °C)	3-4 hrs	1-2 hrs	10-20 min	10-20 min	5-10 min	4-5 hrs	3-4 hrs	3-4 hrs	3-4 hrs
Machinability	yes	yes	yes	yes		yes	yes		
Hardness shore D	80	≥82	80	80	75		80		
Compressive strength Peak (N)		11351						See Separate TDS	See Separate TDS
Compressive Tension Peak (N/mm2)		67.58							
Compressive strength F-Crack (N)		11351							
Compressive strength Tension Break (N/mm2)		67.58							
Compressive Strength Displacement Peak (mm)		0.514							
Tenstile Strength Peak (N)		710.97							
Tenstile Strength Peak (N/mm2)		23.276							
Tenstile Strength F-Crack (N)		691.98							
Tenstile Strength Tension Break (N/mm2)		22.648							
Tenstile Strength Displacement Peak (mm)		1.243							
Tensile strength R-crack (N/mm2)	22.8		5.7	5.6	22.1		21.4		
Tensile strength E-modulus (N/mmz)	2057.3	4204.4			1972.4		1.933.2		
Compressive strength R-crack (N/mm2)	53.7		39	36	51.3		51.4		
Compressive strength E-modulus (N/mm2)	546.6	571.64			518.8		548.2		
Compr. Strength R.Max (N/mm2)	53.7		na	na	51.3		51.4		
Shear-adhesion R-Crack (N/mm2)	30	34.413			29		TBA		
Adhesion to steel (N/mm2)	≥8.4	≥7.2	5.6	5.5	6.6		≥6.6		
Adhesion to aluminum (N/mm2)	≥3.3	≥3.3	5.2	5.1	7.1		≥7.1		
Specific volume (m2/kg)	2.1	0.62	na	na	2.1		2.1	7.1	7.9
Heat resistance corrosion protection	356 °F (180 °C)	482 °F (250 °C)	500 °F (260 °C)	300 °F (150 °C)	300 °F (150 °C)	2372 °F (1300 °C)	248 °F (120 °C)	300 °F (150 °C)	300 °F (150 °C)
dielectric strenght KV/mm	10	10		11.8	10.1		10		
Taber test - Average wear index	122						146.2	66	142

Unigrip
Chocking and Casting Compound

Application Type	Casting/Chocking	Compressive Strength A + B (E-modulus)	1025 N/mm2)	Bending Tensile strength	43.2 N/mm2
Consistency	Fluid	R-Brk	106 N/mm2)	E-modulus	7.200 N/mm2
Application by	pour/inject	A + B + 25% Silver sand (E-modulus)	855 N/mm2)	Shear Strength	6.8 N/mm2
Mixing Ratio Vol.	mix 18:1	R-Brk	98 N/mm2)	Tensile strength	16.8 N/mm2
Max Temperature	300 °F (150 °C)	A + B + 25% Filler granulate 2.0-2.5 mm (E-modulus)	1147 N/mm2)	Linear expansion coefficient	5 x 10-5 K-1

Potlife @ 68°F (20 °C)	20-30 min		R-Brk	94 N/mm2)	Hardness shore D	80
Curing time / dust free @ 68°F (20 °C)	6-8 hrs	A + B + 50% Filler granulate 2.0-2.5 mm (E-modulus)		450 N/mm2)		
Specific gravity (mixed product)	2.2 kg/dm3		R-Brk	100 N/mm2)		

Tested acc. to	
Hardness	ISO 868
Tensile strength	ISO 527
Compressive strength	ISO 604
Adhesion to steel	ISO 4624
Density mixed products	DIN 53217
Taber test - Average wear index	ISO 7784-2
Flash point Component	DIN 53213
UNIGRIP SUPER CAST	
Compressive Strength (E-modulus)	DIN 53217
Bending Tensile strength	DIN 53452
E-Modulus	ISO 527
Tensile Strength	ISO 527
Linear expansion coefficient	ASTM E 831