

Wencon physical properties - S.I metrics system

	Wencon Cream	Wencon Rapid	Wencon Coating white+blue	Wencon Hi-Temp yellow+green	Wencon Putty	Wencon Pipe Tape	Wencon Exhaust Repair kit	Wencon UW Cream	Wencon UW Coating orange+brown	Wencon UW Coating LV	Wencon UW Putty	Wencon Ceramic Cream	Wencon Ceramic Coating grey+green
Max. Temperature	+60 - +250°C	+60 - +250°C	+60 - +250°C	+160 - +300°C	+60 - +250°C	+120°C	Up to +1000°C (1832°F)	+60 - +160°C	+60 - +160°C	+60 - +160°C	+60 - +95°C	+200 - +300°C	+220 - +320°C
Consistency	paste	paste	fluid	fluid	putty		fluid	paste	fluid	fluid	putty	paste	fluid
Mixing ratio vol.	1:1	1:1	1:2	1:2	-		No mixing.	1:2	1:2	2:1	1:1	1:2	1:2
Apply with	spatula	spatula	spatula/brush	spatula/brush	hand/spatula	hand	see prod. info.	spatula	spatula/brush	Spray	hand/spatula	spatula	spatula/brush
Potlife at 20 C.	30-60 min. Mixed in small amounts	10-20 min. mixed in small amounts	20-30 min. mixed in small amounts	20-40 min. mixed in small amounts	3-6 min. mixed in small amounts	4-6 min.		25-30 min. mixed in small amounts	25-35 min. mixed in small amounts	15-20 min. in nozzle	25 minutes	30-40 min. mixed in small amounts	20-30 min. mixed in small amounts
Curing time	10 - 15 hrs	40 - 90 min.	10 - 15 hrs	10 - 24 hrs	10 - 20 min.	10 - 30 min.	Initial curing 3-4 hrs	10 - 18 hrs	10 - 18 hrs	10-18 hrs.	10 - 18 hrs	10 - 15 hrs	10 - 15 hrs
Machinability	yes	yes	yes	yes	yes		yes	yes	yes	yes	yes	yes	yes
Hardness shore D	75	81	80	82	85	N/A	N/A	79	79	80	76	80	81
Tensile strength Rcrack	14,30 N/mm ²	9,20 N/mm ²	12,90 N/mm ²	13,80 N/mm ²	4,60 N/mm ²	172 N/mm ²	N/A	35,80 N/mm ²	37,50 N/mm ²	37,00 N/mm ²	17,6 N/mm ²	25,80 N/mm ²	25,40 N/mm ²
Compressive strength Rcrack	58 N/mm ²	112 N/mm ²	95 N/mm ²	96 N/mm ²	35,14 N/mm ²	180 N/mm ²	N/A	134 N/mm ²	133 N/mm ²	130 N/mm ²	25,30 N/mm ²	65,10 N/mm ²	124 N/mm ²
Compr.strength modulus of elasticity	1.689 N/mm ²	2.891 N/mm ²	2.199 N/mm ²	4.284 N/mm ²	NA		N/A	2.631 N/mm ²	3.117 N/mm ²	3.282 N/mm ²	3.400 N/mm ²	2.799 N/mm ²	3.030 N/mm ²
Shear adhesion *	14,40 N/mm ²	20 N/mm ²	16,20 N/mm ²	22,40 N/mm ²	4,50 N/mm ²	19 N/mm ²	N/A	33 N/mm ²	31,90 N/mm ²	31,1 N/mm ²	15,90 N/mm ²	30,80 N/mm ²	28,90 N/mm ²
Adhesion to steel **	>3,0 N/mm ²	2,0 N/mm ²	6,0 N/mm ²	3,4 N/mm ²	>4,5 N/mm ²		N/A	>7,5 N/mm ²	>7,5 N/mm ²	>7,5 N/mm ²	>6,5 N/mm ²	6,7 N/mm ²	4,5 N/mm ²
Specific volume	775 cm ³ / kg	709 cm ³ / kg	730 cm ³ / kg	680 cm ³ / kg	500 cm ³ / kg		735 cm ³ / kg	526 cm ³ / kg	535 cm ³ / kg	524 cm ³ / kg	556 cm ³ / kg	538 cm ³ / kg	658 cm ³ / kg
Heat resistance													
Corrosion	60°C (140°F)	60°C (140°F)	60°C (140°F)	160°C (320°F)	60°C (140°F)	120°C (248°F) peak 190°C (374°F)		60°C (140°F)	60°C (140°F)	60°C (140°F)	60°C (140°F)	200°C (392°F)	220°C (428°F)
Light or no load	120°C (248°F)	120°C (248°F)	120°C (248°F)	220°C (430°F)	120°C (248°F)			100°C (212°F)	100°C (212°F)	100°C (212°F)	95°C (199°F)	250°C (482°F)	260°C (500°F)
F or filling only	250°C (482°F)	250°C (482°F)	250°C (482°F)	300°C (570°F)	250°C (482°F)			160°C (320°F)	160°C (320°F)	160°C (320°F)	95°C (199°F)	300°C (572°F)	320°C (608°F)
Dielectric strength	10 KV/mm	10 KV/mm	10 KV/mm	10 KV/mm	N/A	N/A		10 KV/mm	10 KV/mm		N/A	N/A	10 KV/mm
Hardness	Shore D, DIN 53505												
Tensile strength	N/mm ² (10kg/cm ²) DIN 53454												
Compressive strength	N/mm ² DIN 53454												
Shear adhesion *	Single-lap-joint acc. to ASTM D1002												
Adhesion to steel **	N/mm ² (10kg/cm ²) / ISO 4624												
Specific volume	cm ³ per kilogram												

Version 8 - 2026

Every endeavour has been made to ensure that the information given herein is true and reliable, but it is given only for the guidance of our customers. The company cannot accept any responsibility for loss or damage, that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm the suitability of this product with their own test. All dimensions shown are approximate.