

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 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 +1300°C (2400°F)	+60 - +160°C	+60 - +160°C	+60 - +95°C	+200 - +300°C	+220 - +320°C
Consistency	paste	paste	fluid	fluid	putty		fluid	paste	fluid	putty	paste	fluid
Mixing ratio vol.	1:1	1:1	1:2	1:2	-		No mixing. Just stir content before use	1:2	1:2	1:1	1:2	1:2
Apply with	spatula	spatula	spatula/brush	spatula/brush	hand/spatula	hand	see prod. Info.	spatula	spatula/brush	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	25 minutes	30-40 min. mixed in small amounts	20-30 min. mixed in small amounts
Curing time	10 - 15 hours	40 - 90 min.	10 - 15 hours	10 - 24 hours	10 - 20 min.	10 - 30 min.	Initial curing 3-4 hours	10 - 18 hours	10 - 18 hours	10 - 18 hours	10 - 15 hours	10 - 15 hours
Machinability	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	76	80	81
Tensile strength Rcrack	14,30 N/mm2	9,20 N/mm2	12,90 N/mm2	13,80 N/mm2	4,60 N/mm2	172 N/mm2	N/A	35,80 N/mm2	37,50 N/mm2	17,6 N/mm2	25,80 N/mm2	25,40 N/mm2
Compressive strength Rcrack	58 N/mm2	112 N/mm2	95 N/mm2	96 N/mm2	35,14 N/mm2	180 N/mm2	N/A	134 N/mm2	133 N/mm2	25,30 N/mm2	65,10 N/mm2	124 N/mm2
Compr.strength modulus of elasticity	1.689 N/mm2	2.891 N/mm2	2.199 N/mm2	4.284 N/mm2	NA		N/A	2.631 N/mm2	3.117 N/mm2	3.400 N/mm2	2.799 N/mm2	3.030 N/mm2
Shear adhesion *	14,40 N/mm2	20 N/mm2	16,20 N/mm2	22,40 N/mm2	4,50 N/mm2	19 N/mm2	N/A	33 N/mm2	31,90 N/mm2	15,90 N/mm2	30,80 N/mm2	28,90 N/mm2
Adhesion to steel **	>3,0 N/mm2	2,0 N/mm2	6,0 N/mm2	3,4 N/mm2	>4,5 N/mm2		N/A	>7,5 N/mm2	>7,5 N/mm2	>6,5 N/mm2	6,7 N/mm2	4,5 N/mm2
Specific volume	775 cm3 / kg	709 cm3 / kg	730 cm3 / kg	680 cm3 / kg	500 cm3 / kg		330 cm3 / kg	526 cm3 / kg	535 cm3 / kg	556 cm3 / kg	538 cm3 / kg	658 cm3 / 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°)		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)	95°C (199°F)	250°C (482°F)	260°C (500°F)
For 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)	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/mm2 (10kg/cm2) DIN 53454
Compressive strength	N/mm2 DIN 53454
Shear adhesion *	Single-lap-joint acc. to ASTM D1002
Adhesion to steel **	N/mm2 (10kg/cm2) / ISO 4624
Specific volume	cm3 per kilogramme

Version 6 - 2019

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.