

Summer Silicate Resin

Pipe Doctor Patch Repair

S1E Summer (3P-S1) Standard (comp. B)

Technical data and adhesive strength

Technical data

Bending strength	35,4 N/mm ²
Compressive strength	57,3 N/mm ²
Modulus of elasticity, calculated from bending	775 N/mm ²
Linear shrinkage	0,06 %
Coefficient of thermal expansion	9,1 x 10 ⁻⁵ 1 /°C
Resistance to heat at 80°C, wet	resistant
Resistance to heat at 80°C, dry	resistant

Adhesive strength

On concrete C 16	3,6 N/mm ² (crushed concrete))
On compact tiles	1,6 N/mm ²
Watertightness (at a pressure of 3 bar, 1 cm thick test specimen)	water-tight
Absorption of surface water	Ø
Wear loss according to Böhme	2,57 mm
Vapour diffusion resistance (with a 1 cm thick test specimen)	39 x 10 ⁶ m ² .s.Pa/g
Shelf life in accelerated laboratory cycle testing	After 25 cycles, no changes, strength unchanged
Frost resistance	After 25 cycles, no damage, strength unchanged

Synthetic resin (Type)	Thickness (mm)	Width (mm)	Tensile force (N)	Tensile strength (N/mm ²)	Test specimen Lifespan
S1/1	3,2 – 3,7	20,4 – 20,6	7.900	111,7	6 days
S1/2	2,8 – 3,3	20,3 – 20,3	9.100	146,9	
S1/3	2,7 – 3,2	20,2 – 20,6	8.250	137,0	
W1/1	3,2 – 3,4	20,7 – 20,8	12.650	84,7	6 days
W1/2	3,3 – 3,4	20,5 – 20,6	13.800		

Synthetic resin (Typ)	Thickness (mm)	Width (mm)	Bending tensile force (N)	Bending tensile strength (N/mm ²)	Compressive force (N)	Compressive strength (N/mm ²)	Test specimen Lifespan
S1/1	20,6 – 20,8	20,4 – 20,5	7.800	133,50	200.000	241,50	4 days
S1/2	20,8 – 21,3	20,5 – 20,7	7.500	123,20	200.000	242,70	
S1/3	20,7 – 20,7	20,4 – 20,9	6.200	105,10	194.000	235,40	
S1/4	20,7 – 20,8	20,5 – 20,8	6.380	107,60	192.000	232,40	
W1/1	20,8 – 21,9	20,5 – 20,5	6.050	97,10	164.000	200,00	4 days
W1/2	20,7 – 21,6	20,3 – 20,7	6.800	111,20	163.000	198,80	
W1/3	22,0 – 22,0	20,5 – 20,8	6.550	98,30	150.000	181,60	
W1/4	20,3 – 21,4	20,2 – 20,8	6.680	112,40	172.000	208,70	

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S1E Limited Specialist Suppliers of Trenchless Technology

No-dig Pipeline Repair

S1E Limited is a specialist supplier of trenchless technologies to the drainage repair industry. The company focuses on sourcing quality products for professional use. They are all tried and tested in the field to produce impressive results. S1E distributes high-quality products from market-leading manufacturers for the drainage repair industry. Products include camera inspection systems, cutting and cleaning tools, CIPP lining equipment and consumables, mechanical point repair devices, rat blockers and other site consumables.

S1E Limited is committed to being a quality supplier, with a focus on customer service. S1E is proud to be an active member of the UK Society for Trenchless Technology.

First established in 2007 as Fernco Environmental, the company's mission was to seek out repair products for the infrastructure repair and water management markets. Since 2016, it has re-focused its ranges to the specialist field of trenchless repair, with a growing portfolio in this specialist area.

The company is owned by Cooper Companies Inc, a US-based leader in the production of pipe couplings. The Group also owns companies in Canada, Mexico, Brazil, Germany and France, as well as the UK-based sister company to S1E, Fernco (previously, Flexseal).

It is accredited to ISO 9001: 2015 for its Quality Management System. It is also accredited to ISO 14001: 2015 for its Environmental Management System.



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