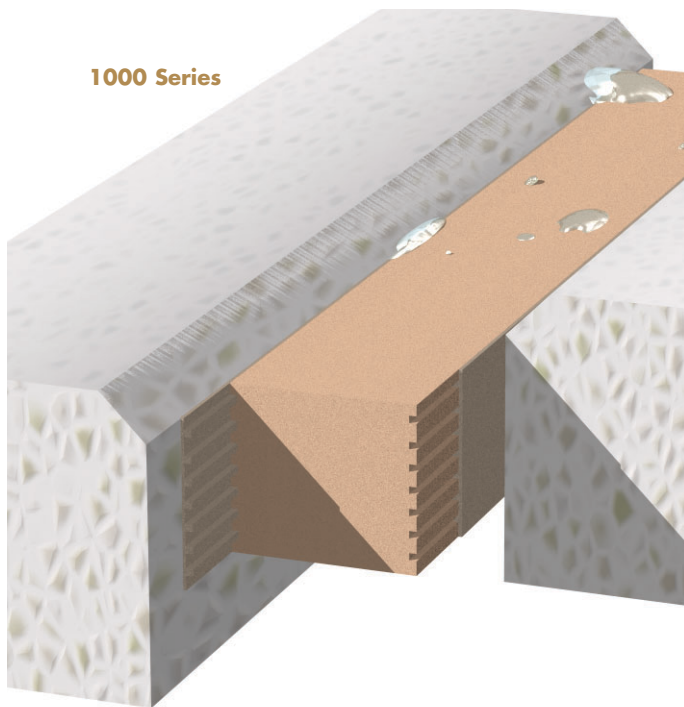


React 1000

Epoxy Bonded Seal Systems for Walls, Roofs, Parking and Bridge Decks

Joint Widths 20mm to 100mm



1000 Series

contains a Hindered Amine Light Stabiliser that inhibits the UV degradation of the material. This stabiliser is regenerated within the polymer and is not consumed leading to the extreme longevity of the joint. React 1000 does not use carbon black pigmentation in its formulation as this leads to heat generation and accelerated shrinkage of polymers that contain this compound.

React 1000 joints have grooves along the bond surfaces at 6mm to 12mm centres and these are typically 3mm wide x 3mm deep and run the entire length of the joint. These grooves increase the surface area of the bond surfaces and enhance adhesion to substrates.

React 1000 joints have a working movement range of 60% compression and 30% extension and are designed to be installed pre-compressed by 25% into structural gaps. Table 2 below shows the width of the uncompressed joint, associated gap width and +/- movement capacity from this gap width.

React 1000 joints supplied are sandy beige in colour and special React 1000 flexible coatings can be supplied which, when applied, permit colour co-ordination of the joint with other finishes without compromising the joint's performance.

The physical and chemical properties of this joint do not alter significantly over the temperature range -70°C to +70°C and all directional changes in the joint must be carried out using heat welding. This is accomplished by placing the joint material ends against a Teflon coated heating iron at 176°C for 10 to 20 seconds. The ends are then placed tightly together and fusion bonded. Do not test the weld until the material has completely cooled and full strength achieved.

React 1000 Bonding Agent is supplied and should be used to bond the joint to the structure. This bonding agent provides excellent adhesion in various weather conditions and tests indicate that the bond strength is greater than the joint material strength which is 0.8N/mm².

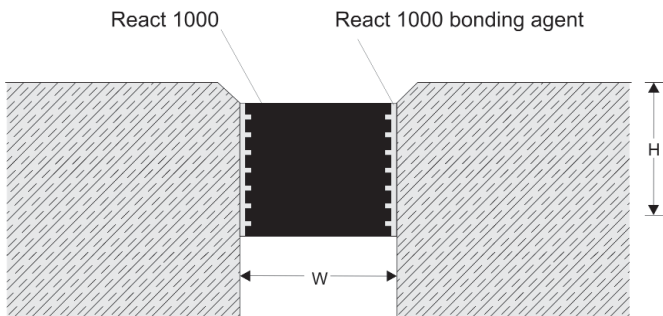


Table 1: Physical Properties

General	Meets ASTM 1056, Type 2, Class B, Grade 2 Meets AASHTO T-42-84 Modified
Compression Set	50% Compression for 22 hours at 73 °C:- -2 hour recovery - 10% set -24 hour recovery - 9% set
Extrusion	When a test specimen is compressed to 60% of its original width with three sides restrained, the amount of extrusion on the free side does not exceed 6mm
Elongation	The material has an elongation at break of at least 255%.
Density	Typically 48Kg/m ³
Water Absorption	Typically 0.3Kg/m ³
Weather Test	Tested to HH-F-341a, Type 1, Class A - no degradation
Tensile Strength	792.9KPa tested to ASTM D3575, Suffix T
Recovery	98.9% Recovery tested to ASTM D545
Tear Resistance	0.34Kg/mm
Environment	React 1000 is safe for use in potable and processed water applications
Tolerances	React 1000 joints are supplied to the following dimensional tolerances: Depth +10% -5% : Width +/- 2%

Joint Type

This joint is suitable for installation in exterior applications in floors, decks and walls forming a watertight impenetrable seal that is unaffected by road salts and petroleum products. Its elasticity will reject stones and debris and will sustain pedestrian traffic and repeated loading from wheeled vehicles.

Applications

External floor to floor, floor to wall and wall to wall applications including podiums, pavements, parking decks and ramps, airport runways, and bridges including steel deck bridges where positive anchoring is not possible. React 1000 joints are also suitable for use with potable and processed water applications including reservoirs and wastewater treatment plants.

React 1000 will resist hydrostatic pressure based upon the following depths of seal being used:

Seal Depth mm	Head of Water Metres
50	6.7
64	10.0
76	12.0
89	21.0

React 1000 has excellent resistance to a wide range of chemicals including dilute acids and alkalis. For specific applications, please contact our technical department for further assistance.

Product Description

The React 1000 series of joints are manufactured from impermeable, closed cell, cross-linked, ethylene vinyl acetate, low-density polyethylene co-polymer which is nitrogen rather than chemically blown. This joint material

Table 2: Joint Specification

Joint Reference	Material Dimensions		Structural Gap Width mm	Joint Movement +/-mm
	Width mm	Depth mm		
1000-A01-020	25	25	20	10
1000-A01-025	32	25	25	12
1000-A01-038	48	51	38	19
1000-A01-044	56	51	44	22
1000-A01-050	64	51	50	25
1000-A01-057	71	51	57	28
1000-A01-063	79	64	63	31
1000-A01-070	87	64	70	35
1000-A01-075	95	76	75	37
1000-A01-083	103	76	83	41
1000-A01-090	111	76	90	45
1000-A01-095	119	89	95	47
1000-A01-100	127	89	100	50