BIS-PE GEN3 Mortar Properties

B+BTec BIS-PE GEN3 injection mortar may be applied in cracked and non-cracked concrete, lightweight-concrete, aerated-concrete and natural stone (Attention! natural stone can discolour, this shall be checked in advance.). In the table below the physical properties of the B+BTec BIS-PE GEN3 are listed.

Properties	Test Method	Result
Compressive strength	EN 196-1	122 N/mm²
Flexural strength	EN 196-1	66,0 N/mm²
Axial tensile strength	DIN EN ISO 527-2	44,2 N/mm²
E modulus	DIN EN ISO 527-2	6.300 N/mm²
Elongation at fracture	DIN EN ISO 527-2	1 %
Degree of shrinkage	DIN 52450	≤ 1,4 ‰
Hardness Shore A	DIN EN ISO 868	99,4
Hardness Shore D	DIN EN ISO 868	86,1
Density		≤ 1,5 kg/dm³
Thermal conductivity	DIN EN 993-15	0,50 W/mK
Heat capacity	DIN EN 993-15	1.350 J/kgK
Electrical resistance	DIN IEC 93	8,0 · 1012 Ω

BIS-PE GEN3 Chemical Resistance

The resistance of the B+BTec BIS-PE GEN3 injection mortar to chemical substances is given in the table below. The data in this table are applicable to brief periods of chemical contact with full cured adhesive (e.g. temporary contact with adhesive during a spill).

Chemical Agent	Concentration	Resistant	Not resistant
Acetic acid (Vinegar)	40		■
Acetone	10		■
Ammonia, aqueous solution	5	■	
Aniline	100		■
Beer	100	■	
Benzine (kp 100-140°F)	100	■	
Benzene	100		■
Boric Acid, aqueous solution		■	
Calcium carbonate, suspended in water	All	■	
Calcium chloride, suspended in water		■	
Calcium hydroxide, suspended in water		■	
Carbon tetrachloride	100	■	
Caustic soda (Sodium hydroxide)	40	■	

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Pure-Epoxy GEN 3

Chemical Agent	Concentration	Resistant	Not resistant
Citric acid	All	■	
Chlorine	All	■	
Diesel oil	100	■	
Ethyl alcohol, aqueous solution	50		■
Formaldehyde, aqueous solution	30	■	
Formic acid (Methanoic acid)	100		■
Formic acid (Methanoic acid)	10	■	
Freon		■	
Fuel Oil		■	
Gasoline (premium grade)	100	■	
Glycol (Ethylene glycol)		■	
Hydrogen peroxide	30		■
Hydrochloric acid (Muriatic Acid)	Conc.		■
Isopropyl alcohol	100		■
Lactic acid	All		■
Laitance		■	
Linseed oil	100	■	
Lubricating oil	100	■	
Magnesium chloride, aqueous solution	All	■	
Methanol	100		■
Motor oil (SAE 20 W-50)	100	■	
Nitric acid	10		■
Oleic acid	100	■	
Perchloroethylene	100	■	
Petroleum	100	■	
Phenol, aqueous solution (Carbonic acid)	8		■
Phosphoric acid	85	■	
Phosphoric acid	10	■	
Potash lye (potassium hydroxide, 10% and 40% solutions)		■	
Potassium carbonate, aqueous solution	All	■	
Potassium chlorite, aqueous solution	All	■	
Potassium nitrate, aqueous solution	All	■	
Sodium carbonate, aqueous solution	All	■	
Sodium chloride, aqueous solution	All	■	
Sodium phosphate, aqueous solution	All	■	
Sodium silicate	All	■	
Sulfuric acid	30		■
Tartaric acid	All	■	
Tetrachloroethylene	100	■	
Toluene			■
Turpentine	100	■	
Trichloroethylene	100		■