

# Hybrid GEN<sup>2</sup>

B+BTec  
DesignFIX®

BIS-HY GEN2  
PROPERTIES 013X.1222.02

Hybrid Injection Adhesive  
ETA Option 1 Assessed  
for Cracked & Non-Cracked  
Concrete

## Material Properties & Chemical Resistance



## BIS-HY GEN2 Mortar Properties

B+BTec BIS-HY GEN2 injection mortar may be applied in cracked and non-cracked concrete, light-concrete, porous-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-HY GEN2 are listed.

Properties	Test Method	Result
UV resistance		Pass
Watertightness	DIN EN 12390-8	0 mm
Temperature stability		≤ 160°C
Density		1780 kg/m <sup>3</sup>
Compressive strength	DIN EN 196-1	122 N/mm <sup>2</sup>
Tensile strength	DIN EN ISO 527-2	14,9 N/mm <sup>2</sup>
Flexural strength	DIN EN 196-1	22,2 N/mm <sup>2</sup>
E-modulus	DIN EN ISO 527-2	8300 N/mm <sup>2</sup>
Shrinkage	DIN 52450	< 0,2 %
Hardness Shore A	DIN EN ISO 868	97,6
Electrical resistance	DIN IEC 93	7,2 x 10 <sup>13</sup> Ωm
Thermal conductivity	DIN EN 993-15	1,06 W/m·K
Thermal heat capacity	DIN EN 993-15	1.090 J/kg·K

## BIS-HY GEN2 Chemical Resistance



Chemical Agent	Concentration	Resistant	Not resistant
Acetic acid	10	■	
Acetone	100		■
Ammonia, aqueous solution	5	■	
Benzyl Alcohol	100		■
Chlorinated lime	10	■	
Citric acid	10	■	
Chlorine water, swimming pool	all	■	
Deminerlized Water	100	■	
Diesel oil	100	■	
Ethanol	100		■
Ethyl Acetate	100		■
Formic acid	100		■
Fuel Oil	100	■	
Gasoline (premium grade)	100	■	
Glycol (Ethylene glycol)	100		■
Hydraulic fluid	100	■	
Hydrogen peroxide	10		■
Isopropyl alcohol	100		■
Lactic acid	10	■	
Linseed oil	100	■	
Lubricating oil	100	■	
Nitric acid	10		■
Methanol	100		■
Phosphoric acid	10	■	
Potassium Hydroxide ph 13.2	100	■	
Salt (Calcium Chloride)	100	■	
Sea water, salty	100	■	
Sodium carbonate	10	■	
Sulfuric acid	10	■	