

Excellent mechanical strength and impact resistance of UQESH®

UQESH® composite material is a hybrid cross-linked body of organic polyurethane and inorganic aggregate. The product not only has the advantages of high and low temperature resistance, impact resistance, strong adhesion, good toughness, chemical resistance and wear resistance of polyurethane coatings, but also combines the advantages of durability, plasticity and heat resistance of inorganic cementitious materials, so that the product can be applied to extreme environments. It is a veritable organic-inorganic hybrid high-end mortar material.

Parameters

Compressive strength (GB/T17671-1999): 40MPa

Flexural strength (ISO 178): 15N/mm²

Tensile bond strength(GB/T22374-2008) : 2.5MPa

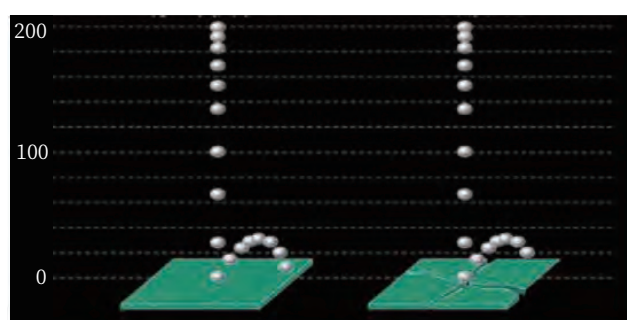
(Damage occurs in the concrete layer)

Impact resistance (grade II):

1kg steel ball drops at a height of 200cm, material surface without cracks, no shedding

Impact resistance test

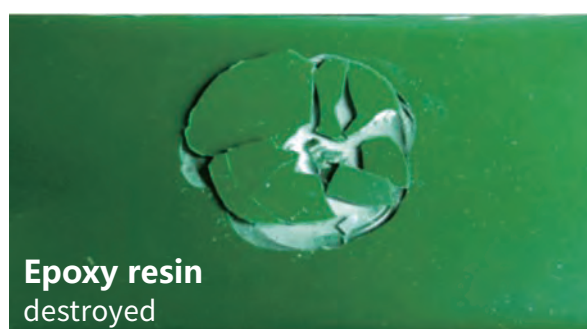
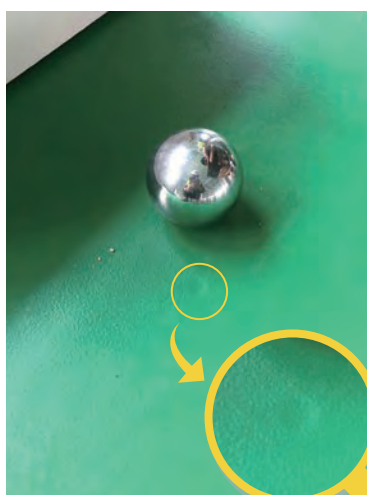
One cycle refers to dropping a 1 kg iron ball from a height of 200 cm.



UQESH®IF

Epoxy resin

- After 75 cycles, the impact marks were left, and the experimental body was not destroyed.
- The experimental body was destroyed after 2 ~ 3 cycles.



Epoxy resin
destroyed



UQESH®IF
the impact marks were left, and the experimental body was not destroyed

Generally, the strength of epoxy, polyurethane, self-leveling cement and other types of ground is much lower than waterborne polyurethane mortar ground. High mechanical strength can ensure the durability of the floor and not easy to bring impurities to the production process.

The above data provides the general information of the product, only for reference, not as part of the product specifications.

