

Carbothix

High Performance Silicate Resin for High Strength Bonding of Anchors



Solutions from Materials Technology





Pumps for application of CARBOTHIX:
CT-PM pump (left) and PHP (below)



Carbothix - Fast, Economical, Precise

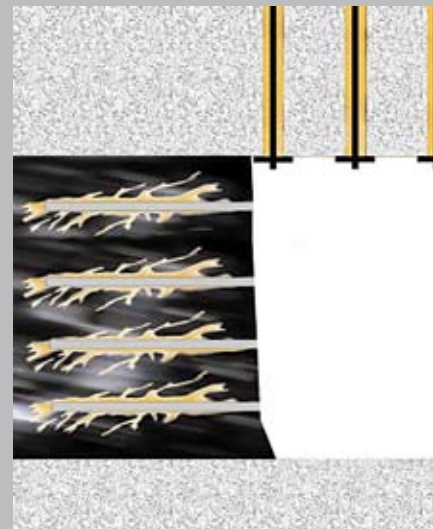


Carbothix is an instantly thickening, fast curing two-component silicate resin for sealing bolts.

Carbothix was especially developed for bonding injection bolts such as Wiborex bolts ("grout into bolt") and for grouting steel and GRP bolts when prefilling the hole before inserting the bar ("bolt into grout"). Additionally, it is well suited for sealing against flowing water.

During application, Carbothix instantly achieves a grease-like viscosity after mixing (the "Thix Effect") so that the mix stops flowing, even out of large boreholes, and requires pump pressure for precise spreading displacement.

Carbothix retains this thixotropic nature allowing for sufficient time to install the bolts. In pull tests with 25 mm diameter threaded bolts, a pull out force of 360 kN (40.4 tn) was achieved on 600 mm (23.6 in) grouted length in a 32 mm hole after four hours as well as after seven days.





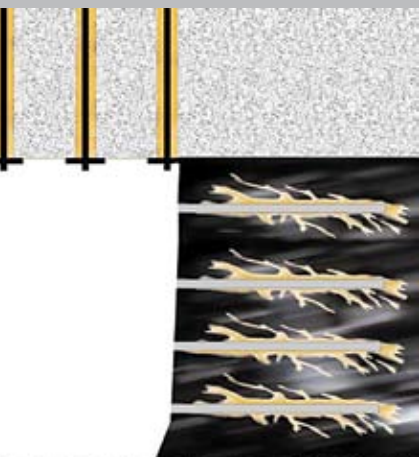
WIBOREX self drilling bolt
with integrated static mixing
unit - combined with
CARBOTHIX a permanent
connection



The thixotropic nature of the grout as well as its resistance against water provide a unique sealing against pressurized water inflow.

Benefits

- Immediate load capacity of the bolt
- Secure and precise injection due to its thixotropic properties
- Economic consumption because only the annulus of the borehole has to be filled
- Easy handling due to application with a two-component pump



FiReP GRP bolts

Rectangular drift with bolts





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