Emcekrete

Grouting concrete and grouting mortar.
High performance, versatile, durable.

EXPERTISE
GROUTS

MC
BE SURE. BUILD SURE.

For concrete constructions

Grouting concrete and grouting mortars are indispensable for a wide range of applications, such as grouting of concrete elements, rigid joints between precast elements, and precast columns in sleeve foundations.

For steel constructions

Grouting products are an ideal solution for undergrouting of machinery, for bedding craneway rails and for steel elements in concrete.

Emcekrete

Durable high performance whatever the application

MC's Emcekrete product systems are the result of ongoing research and development combined with our 60 years of industry experience. Emcekrete meets the highest requirements in relation to the performance and durability of grouted elements. With Emcekrete, you can rigidly grout the foundations of steel elements and fix steel and concrete elements void-free. The Emcekrete product group covers a truly extensive range of application requirements as frequently encountered in the areas of building, underground, civil and road construction.

Emcekrete – for every task the perfect solution.

Emcekrete 50 A

Special grout for individual requirements

Emcekrete 50 A

Ready-to-use, hydraulically setting **grouting concrete** with low hydration heat development

Area of application

- **Max. grain size: 8 mm**
- **Early strength class C**
- **Grouting thickness up to 320 mm**
- Acc. to EN 206, Exp.cl. X0, XC 1-4; XD 1-3; XS 1-3; XA 1-3, XF 1-4
- Moisture classes due to alkali silica reaction W0, WF, WA

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 259.8 g/m², 28 FTC)
- Chloride-free acc. to EN 934-1
- Swellable
- Shrinkage compensated per SKVB 0
- Depth of water penetration: 3 mm / 5 bar
- Compressive strength class C 50/60

Suitable for use acc. to German code ZTV-ING, **Part 8, Section. 3, Grouting of Bearings and Articulated Joints**

Suitable for use acc. to German code ZTV-ING, **Part 8, Section. 6, Underfilling of Anchor Plates**

Concrete repair acc. to German code **RL-SIB, 3rd Revision, Reprofiling of Concrete Components**

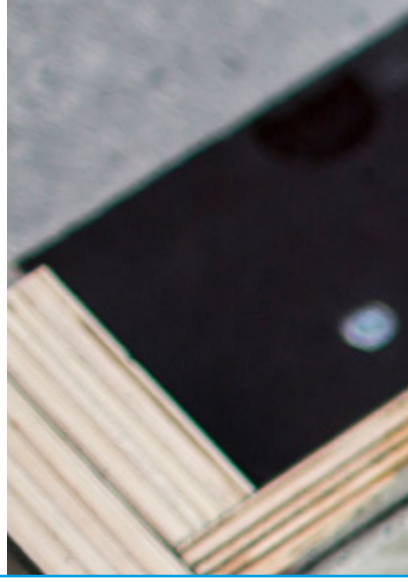
Tested to

- EN 1504-3
- German DAfStb code VeBMR
- EN 1015-17
- EN 12390-8
- EN 12390-9
- EN 13412
- EN 13295
- Sustainable acc. to DGNB

Concrete replacement acc. to **EN 1504-3, cross section supplementation by concreting**

Emcekrete 60

Universal grout for standard applications



Emcekrete 60 A

Ready-to-use, hydraulically setting **grouting concrete**

Area of application

- **Max. grain size: 8 mm**
- **Early strength class A**
- **Grouting thickness up to 200 mm**
- Applicable acc. to EN 206, Exp. Cl. X0; XC 1-4; XD 1-3; XS 1-3; XA 1-3; XF 1-4

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 611 g/m², 56 FTC)
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVB 0
- Depth of water penetration: 4 mm / 5 bar
- Compressive strength class C 80/95

Emcekrete 60 F

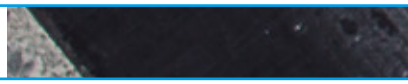
Ready-to-use, hydraulically setting **grouting mortar**

Area of application

- **Max. grain size: 3 mm**
- **Early strength class B**
- **Grouting thickness up to 75 mm**
- Applicable acc. to EN 206, Exp. Cl. X0; XC 1-4; XD 1-3; XS 1-3; XA 1-3; XF 1-4

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 510 g/m², 56 FTC)
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVM II
- Depth of water penetration: 1 mm / 5 bar
- Compressive strength class C 60/75



Emcekrete 60 EF

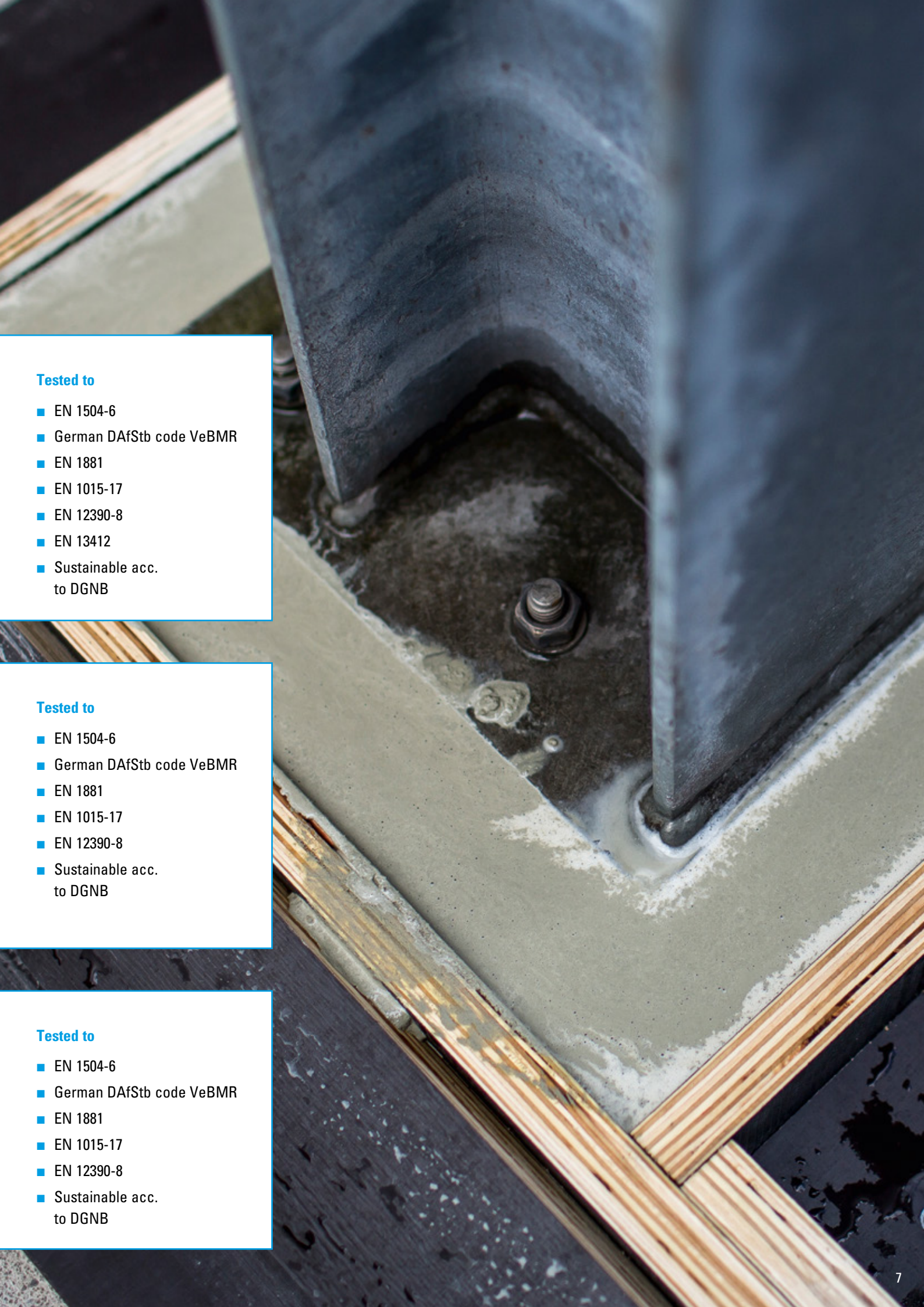
Ready-to-use, hydraulically setting **grouting mortar**

Area of application

- **Max. grain size: 1.2 mm**
- **Early strength class B**
- **Grouting thickness up to 25 mm**
- Applicable acc. to EN 206, Exp. Cl. X0; XC 1-4; XD 1-3; XS 1-3; XA 1-3; XF 1-4

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 498 g/m², 56 FTC)
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVM II
- Depth of water penetration: 2 mm / 5 bar
- Compressive strength class C 55/677



Tested to

- EN 1504-6
- German DAfStb code VeBMR
- EN 1881
- EN 1015-17
- EN 12390-8
- EN 13412
- Sustainable acc. to DGNB

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- EN 1504-6
- German DAfStb code VeBMR
- EN 1881
- EN 1015-17
- EN 12390-8
- Sustainable acc. to DGNB

Tested to

- EN 1504-6
- German DAfStb code VeBMR
- EN 1881
- EN 1015-17
- EN 12390-8
- Sustainable acc. to DGNB

Emcekrete
70 F / DBS 5-F / FH 10 Super 0/5
Fast grouts for rapid results

Emcekrete 70 F

Ready-to-use, hydraulically setting, **fast grouting mortar**

Area of application

- **Max. grain size: 3 mm**
- **Early strength class B**
- **Grouting thickness up to 75 mm**
- Applicable acc. to EN 206, Exp. Cl. X0; XC 1-4; XD 1-3; XS 1-3; XA 1-3; XF 1-3

Performance characteristics

- **Application time: approx. 30 min. (20°C)**
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVM II
- Compressive strength class C 55/67

Emcekrete DBS 5-F

Ready-to-use, hydraulically setting **superfast grouting mortar**

Area of application

- **Max. grain size: 4 mm**
- **Early strength class C**
- **Grouting thickness: For pole and mast grouting**

Performance characteristics

- **Application time: approx. 4 min. (20°C)**
- Chloride-free per EN 934-1
- Frost-resistant
- Compressive strength class C 35/45

Emcekrete FH 10 Super 0/5

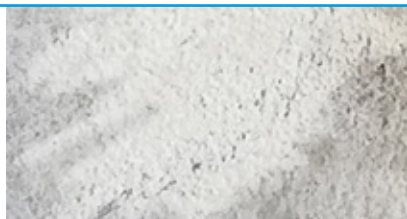
Ready-to-use, hydraulically setting, **turbofast grouting mortar**

Area of application

- **Max. grain size: 1 mm**
- **Early strength class C**
- **Grouting thickness up to 40 mm**
- Also suitable for low temperatures

Performance characteristics

- **Application time: approx. 2-3 min. (at 20°C) / 10 min (0°C)**
- Chloride-free per EN 934-1
- Frost-resistant
- Compressive strength class C 30/37



Tested to

- EN 1504-6
- German DAfStb code VeBMR
- DTp Specification for Highway Works
- EN 1881
- EN 1015-17
- Sustainable acc. to DGNB

Tested to

- EN 1504-6
- Tested to the requirements of German DAfStb code VeBMR
- EN 1881
- EN 1015-17
- Sustainable acc. to DGNB

Tested to

- EN 1504-6
- EN 1881
- EN 1015-17
- Sustainable acc. to DGNB

Emcekrete
100 F / WP 108

High performance grout for exceptional durability

Modern infrastructure builds place enormous demands on the performance of the products used. Especially where grouted components are exposed to extreme environmental conditions, a reliable and durable connection to the load-bearing substrate is of crucial importance.

Emcekrete 100 F

Ready-to-use,
hydraulically setting,
high performance grouting mortar

Area of application

- **Max. grain size: 3 mm**
- **Early strength class A**
- **Grouting thickness up to 75 mm**
- Applicable acc. to EN 206,
  Exp. Cl. X0; XC 1-4; XD 1-3; XS 1-3;
  XA 1-3; XF 1-4

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 141g/m², 28 FTC)
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVM I
- Capillary water absorption: 0.41 M%
- Compressive strength class C 90/105

Emcekrete WP 108

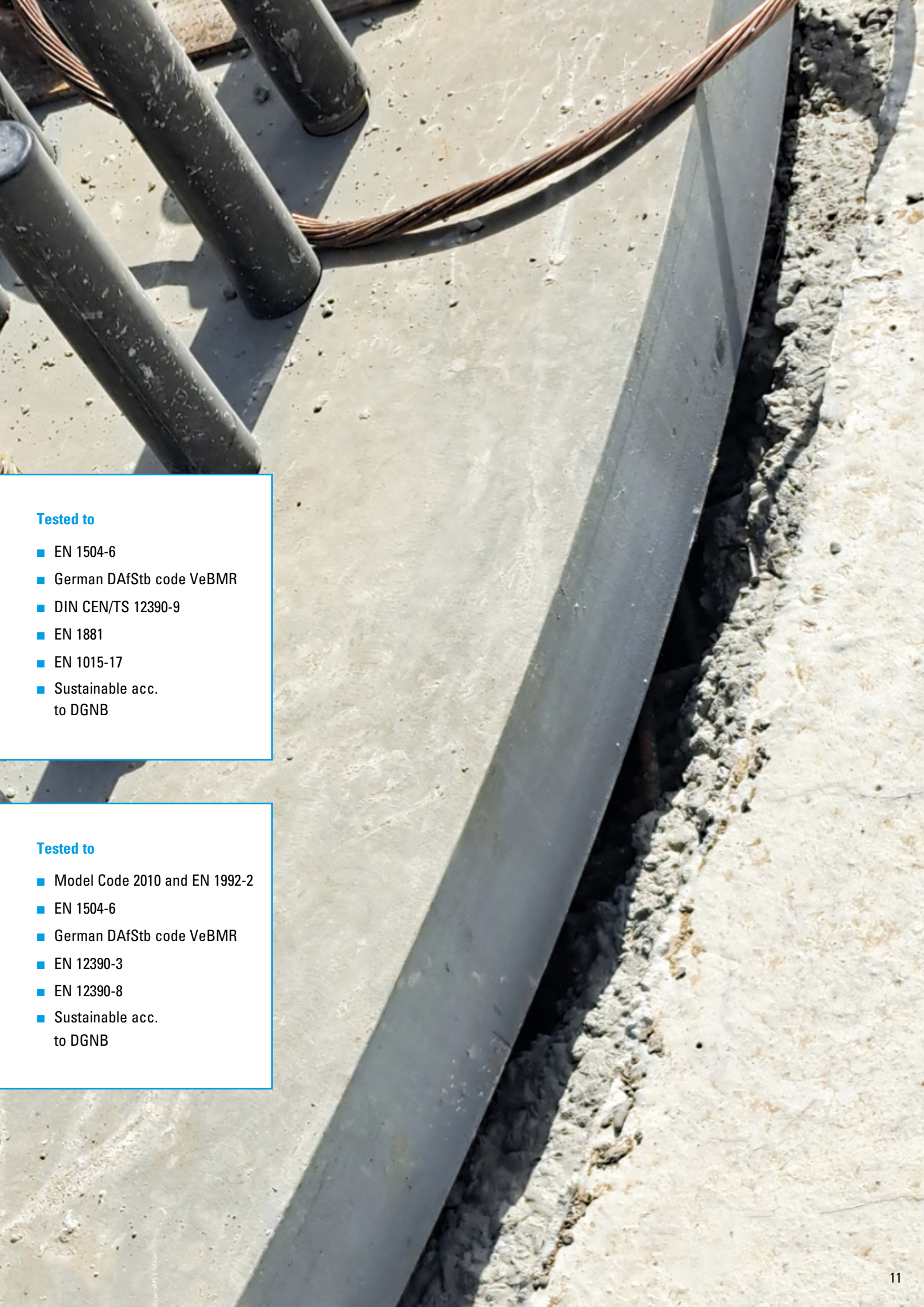
Ready-to-use, hydraulically setting **ultra-high performance grouting concrete for wind turbines**

Area of application

- **Max. grain size: 8 mm**
- **Early strength class A**
- **Grouting thickness up to 200 (300) mm**
- Applicable acc. to EN 206, Exp. cl. X0;
  XC 1-4; XD 1-3; XS 1-3; XA 1-3; XF 1-4

Performance characteristics

- High resistance to freeze-thaw cycling and de-icing salts (CDF, weathering 611g/m², 56 FTC)
- Chloride-free per EN 934-1
- Swellable
- Shrinkage compensated per SKVB 0
- Water penetration depth: 4 mm / 5 bar
- Compressive strength class C 90/105



Tested to

- EN 1504-6
- German DAfStb code VeBMR
- DIN CEN/TS 12390-9
- EN 1881
- EN 1015-17
- Sustainable acc. to DGNB

Tested to

- Model Code 2010 and EN 1992-2
- EN 1504-6
- German DAfStb code VeBMR
- EN 12390-3
- EN 12390-8
- Sustainable acc. to DGNB

Emcekrete UFM / MFT

Underfilling and assembling mortars for special applications

Emcekrete UFM

Ready-to-use, hydraulically setting **filling mortar**

UFM 1

Area of application

- **Max. grain size: 1.2 mm**
- **Layer thickness up to 10 mm**
- Certified to EN 1504-3, Class R3 – structurally relevant
- Suitable for application using the hand-operated mortar pump MC-HM Pump

Performance characteristics

- Carbonation resistance < 0.2 mm
- Chloride-free per EN 934-1
- Depth of water penetration: 30 mm / 5 bar
- Swellable
- Shrinkage compensated

UFM 3

Area of application

- **Max. grain size: 3 mm**
- **Layer thickness up to 60 mm**
- Certified to EN 1504-3, Class R3 – structurally relevant
- Suitable for application using the hand-operated mortar pump MC-HM Pump

Performance characteristics

- Carbonation resistance < 0.2 mm
- Chloride-free per EN 934-1
- Depth of water penetration: 17 mm / 5 bar
- Swellable
- Shrinkage compensated

Emcekrete MFT

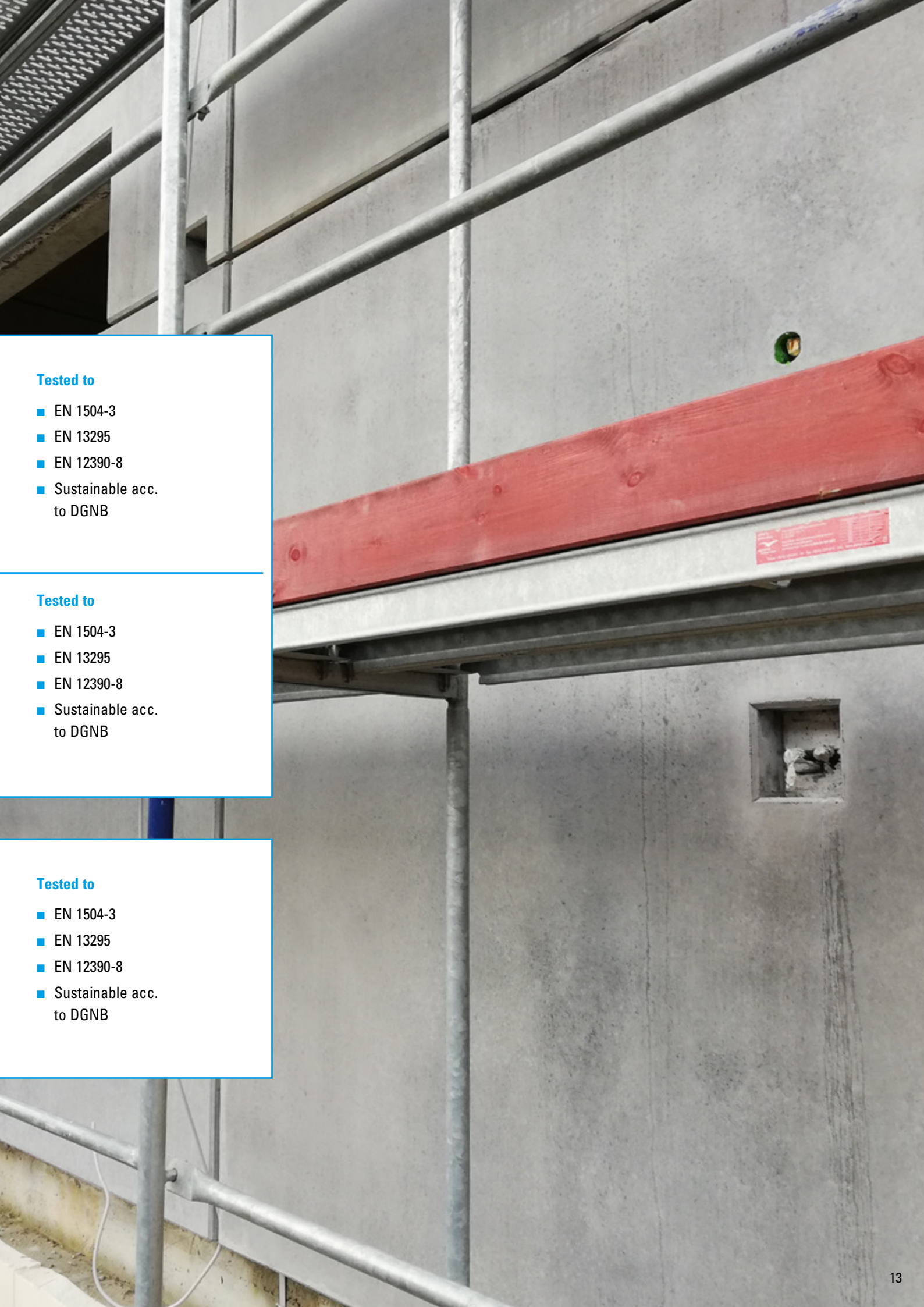
Ready-to-use, hydraulically setting, **assembling and setting mortar**

Area of application

- **Max. grain size: 4 mm**
- **Layer thickness up to 50 mm**
- Certified to EN 1504-3, Class R3 – structurally relevant
- Suitable for application using the hand-operated mortar pump MC-HM Pump

Performance characteristics

- Carbonation resistance < 1.5 mm
- Chloride-free per EN 934-1
- Depth of water penetration: 29 mm / 5 bar
- Swellable
- Stable for vertical applications



Tested to

- EN 1504-3
- EN 13295
- EN 12390-8
- Sustainable acc. to DGNB

Tested to

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- EN 12390-8
- Sustainable acc. to DGNB

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- EN 1504-3
- EN 13295
- EN 12390-8
- Sustainable acc. to DGNB

Emcekrete SFM thix

Joint filling and fixing hole mortar for filling and connection jobs

Emcekrete SFM thix

Thixotropic, hydraulically setting **joint filling and fixing hole mortar**

Area of application

- **Max. grain size: 1 mm**
- Soft plastic and malleable
- Suitable for application with hand-operated mortar pumps MC-HM Pump and MC-HMA Pump

Performance characteristics

- Freeze-thaw cycle exposure per EN 13687-3 (average tensile strength 2.43 N/mm²)
- Chloride-free per EN 934-1
- Depth of water penetration: 7 mm / 5 bar
- Swellable (approx. 1.8 %)
- Shrinkage (1.78 mm/m after 28d)
- Stable for vertical applications

Application tools

MC-HM Pump
hand-operated mortar pump with slit nozzle **for joint filling**

MC-HMA Pump
hand-operated mortar pump with round nozzle **for fixing hole filling**

Hand pumps are an efficient and time-saving means of filling both vertical and horizontal joints and of closing fixing holes to create a void-free and rigid bond.

Tested to

- EN 1504-3
- EN 12390-8
- EN 13687-3
- Sustainable acc. to DGNB

Emcekrete

Grouting concrete and grouting mortars – high performance, versatile, durable.

- Exceptionally flowable
- High strength
- Swellable, shrinkage compensated
- Water-impermeable
- Sustainable acc. to DGNB

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