



WEBER BRIDGE AND TUNNEL SOLUTIONS





WEBER CAN DELIVER DRY MORTAR PRODUCTS AND SOLUTIONS FOR THE FOLLOWING APPLICATIONS:

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INJECTION

Weber can deliver injection products based on fine blended cement. Cement injection can be used for filling and waterproofing cracks in rock. Commonly used in tunnel works and other construction work like renovation and repair of concrete and rock construction; Dams, buildings, tunnels etc. The injection cement is pumped into the rock and fills the crack to waterproof the construction.

A coarser blended cement is suitable for wider cracks and also for anchoring purposes.

PREPAKT INJEKT

Prepakt inject is suitable for different types of injection molding methods where all sides of the casting are given and requirements for total filling exist. Due to its composition, Prepakt grout is particularly suitable where there are high strength and durability requirements for the end product, for example in infrastructure and construction.

INJEKT 30 CEMENT

Fine-blend cement for demanding injection works. Sulphate resistant and low alkaline cement with good ability to penetrate into small cracks in the rock, **CEM 1 52,5 N - SR 3 LA**.

Packaging: 20 kg bags and 1000 kg big bags.

ANLÄGGNINGSCEMENT

A normal-blend cement for general purposes regarding injection and anchoring. Low heat development, suitable if there is a risk of alkali silica reaction and in constructions with demands on higher sulphate resistance. **CEM 1 42,5 N - SR 3 MH/LA**.

Packaging: 25 kg bags and 1000 kg big bags.



ANCHORING

Weber delivers several types of anchoring mortars to fit different types of bolts. Rebar steel bolts and coated bolts are widely used and fit our common anchoring mortars.

All products are designed for hand application as well as to be used in mixer pumps. Even the products with thixotropic consistency are suitable for pumping which enables upwards filling in drill-holes without flowing/dripping out. All products have good freeze and thaw resistant properties and can be used in tough environments. Common use is anchoring of bolts inside tunnels/bridges and for road safety anchoring of bolts on steep mountain sides.

For this type of work in the Nordic countries, Weber has also developed the EXM 741 an anchoring mortar that is possible to use in cold weather with temperature below 0 °C.

WEBER EXM 731

weber EXM 731 is a thixotropic, pumpable expanding mortar for grouting and anchoring of bolts in temperatures from +5 °C to +30 °C. The mortar is expanding approx. 2 % before hardening. Thanks to the thixotropic consistency it is suitable for vertical overhanging drill holes. It can also be used for injection in rocks and grouting of steel foundations. The product complies to **EN 1504-6**.

WEBER EXM 741

weber EXM 741 is a thixotropic, pumpable expanding mortar for grouting and anchoring of bolts in low temperatures (down to -10 °C). The mortar is expanding approx. 2 % before hardening. Due to the thixotropic consistency it is suitable for vertical overhanging drill holes. It can also be used for injection in rocks and grouting of steel foundations. The product complies to **EN 1504-6**.

WEBER EXM 701

weber EXM 701 is a super flowing, expanding, freeze and thaw resistant underpinning, void filling and fixing mortar. EXM 701 gives excellent adhesion to adjoining surfaces (even steel), and like other cement rich mortars it provides high corrosion protection for embedded components made from untreated steel. Embedded components of untreated aluminium must not be used. Galvanized embedded components should be given anti-corrosion protection of the part to be embedded. The product complies with **EN 1504-6**

WEBER CEMBOLT

weber cembolt is a pre-made cement based cartridge/patron for anchoring of bolts in rock and concrete. The cartridge/patron is put in water for approx. 3 min and then placed in the drill holes before the installation of the bolts. Each cartridge/patron is 50 cm long. Pre-made to fit following drill hole dimensions: Ø28, Ø31 and Ø35 mm. Galvanized embedded components should be given anticorrosion protection of the part to be embedded. Recommended use in temperature above +5 °C. The product complies with **EN 1504-6**.



SHOTCRETE

Weber delivers several types of shotcretes for dry-spraying. Dry-sprayed shotcretes are mainly used for renovation of damage areas where wet sprayed shotcrete equipment is considered too big for the task, but also when a fast setting time is on top of the priorities. New construction and restoration work in tunnels, bridges, parking houses and other similar structures is common tasks for the dry-sprayed shotcrete, but also for surface levelling before waterproofing or surface coating. Dry-sprayed shotcrete is virtually hard when it hits the surface and can immediately be overworked. All standard weber dry-spray products are based on CEM 1 42.5 N - SR 3 MH/LA cement which makes them suitable for tough conditions.

WEBER SPRUTBETONG REDUCE 4/8

Medium to course graded dry dry-sprayed shotcrete mortar for renovation and new constructions. Choose between a maximum grain-size of D-Max 4 mm or 8 mm. Contains additives to reduce rebound.

Packaging: 25 kg and 1000 kg big bags.

WEBER REP 955

Medium graded dry dry-sprayed shotcrete mortar for renovation and new construction with a maximum grain-size (D-max) 4 mm also contains polypropylene fibres for better fire resistance.

Packaging: 25 kg bags and 1000 kg big bags.



ELEMENT GROUTING/ JOINTING

Grouting and anchoring of concrete segments/elements for tunnels and buildings can be done by cement based grouting mortars. When using cement based grouting mortars it is possible to use less welding and take up more shear force with the mortar compared to flexible joints. The concrete segments/elements need to be designed for this purpose from factory and anchored together with reinforcement. This application is very efficient when done with Webers site equipment, and also a good solution for fireproofing.

WEBER EXM 731

weber EXM 731 is a thixotropic expanding mortar perfect for jointing concrete elements and natural stones. The mortar is expanding about 2 % before hardening. EXM 731 can also be used for grouting under foundations and anchoring of bolts. The mortar is pumpable in a thixotropic consistency and can therefore be used on vertical joints without flowing/falling out. Recommended use in temperatures above +5 °C. The product complies to **EN 1504-6**.

WEBER EXM 741

weber EXM 741 is a thixotropic expanding mortar perfect for jointing concrete elements and natural stones in temperatures under +5 °C. The mortar is expanding approx. 2 % before hardening. EXM 741 can also be used for grouting under foundations and anchoring of bolts. The mortar is pumpable in a thixotropic consistency and can therefore be used on vertical joints without flowing/falling out. Possible to use in temperatures down to -10 °C. The product complies to **EN 1504-6**.

WEBER DRY-MIX 85

weber dry-mix is the time-saving solution when the project must have dry joints in the shortest possible time. While an ordinary concrete needs months to achieve a moisture content below 85 % relative humidity, the Weber Dry-mix 85 does it in just 3-7 days (at 20 °C) regardless of layer thickness. The product is suitable to use in Webers mixer-pumps and can also be delivered in a pumptruck to the jobsite.



GROUT MORTARS/ EXPANDING MORTARS

Grouting of concrete elements and foundations to ensure a transfer of loads to the substrate and complete filling of voids. Typical use for grouting is under columns, bridge bearings, jointing of precast elements, rail segments and around steel structures for better fire resistance.

WEBER EXM 702

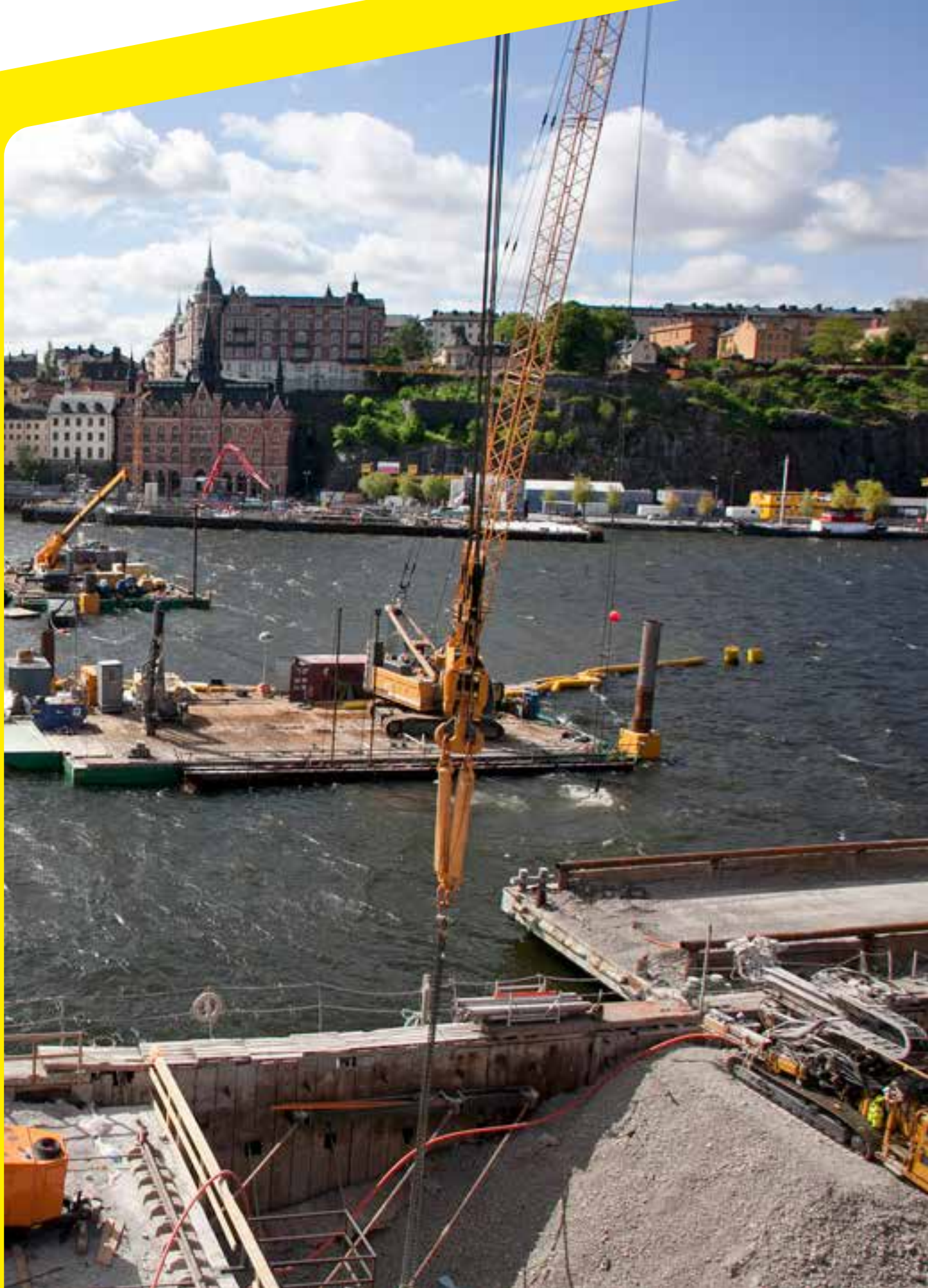
Multifunctional, fine graded and flowable underpinning mortar suitable for many different kind of grouting jobs. Reaches a compressive strength of 30 MPa after 24h (at +20 °C). The product complies to **EN 1504-6**.

WEBER EXM 715

Medium graded multifunctional flowable underpinning mortar specially designed for low temperatures (down to -10 °C). Fulfills the demands of AMA AF regarding winter concrete and complies to **1504-6**.

WEBER EXM 725

Medium graded flowable underpinning mortar, 100 % based of CEM 1 42,5 N SR 3 MH/LA cement which makes it extra sulphate resistant. Suitable for underpinning and castings from 30 mm and up to approx. 300 mm. Fulfills the demands of AMA AF and complies to **EN 1504-6**.



CONCRETE FOR CASTING

When high precision regarding delivery reliability, performance and flexibility is required, dry-mix concrete can be the solution even to larger castings when it's combined with the right site equipment. Webers dry-mix concrete is developed according to our customers' needs with durability and the end customer in focus.

WEBER REP 931/933

Dry-mix concrete with a maximum grain size (D-max) of 4 or 8 mm. CEM 1 42,5 N SR 3 MH/LA binder ensures good sulphate resistance and is in line with building requirements for structures in highly exposed environments, bridges, tunnels, parking houses etc.

Packaging: 25 kg bag, 1000 kg big bag and bulk truck.

WEBER UNDERVATTENSBETONG/ VINTER

Dry-mix concrete with anti washout additive for new constructions and renovation, underwater. A winter version is also available for cold conditions (< 5 °C).

Packaging: 20 kg bag and 1000 kg big bag.



SURFACE PROTECTION

Concrete is a durable material. Nevertheless, there are decomposition mechanisms that over time degrade the performance of the concrete structures. The application of surface protection is a simple maintenance that allows the concrete structures to keep its initial condition for centuries. The surface protection can be an invisible impregnation but also cement based slurries or tinted paints that also can give the structure an esthetical added value. With a combination of two or more surface protection products you will get the best protection.

WEBER BETONGIMPREGNERING CRÈME

Hydrophobic impregnation based on silanes. Penetrates the concrete and gives an invisible water repellent function that prevents water, chlorides and other harmful substances dissolved in water to penetrate the concrete structure. Weber betongimpregnering Crème is best applied by roller or with a spray gun and also suitable to use underneath an acrylic paint as an extra protection barrier. Complies to **EN1504-2**, Class 2 (>10 mm)

Packaging: 25 kg buckets.

WEBER CONCRETE IMPREGNATION

Weber Concrete impregnation is an easy-flowing colorless liquid for waterproofing concrete. It provides durable water-repellent durability and prevents water ingress and harmful chlorides, reducing the risk of frost and rust burst. The product has an impregnation depth of 10 mm in concrete according to current standards. Applies smoothly with a spray gun, brush, or roller. Delivered in 5 l plastic container or 200 l barrel. **CE marked for Class II according to EN 1504-2 and approved according to TRVAMA Anläggning.**

WEBER CONCRETE PAINT

Tintable acrylic paint that prevents carbon dioxide from penetrating the structure and lowering its pH. Best applied with brush, roller or spray gun. Complies to **1504-2**.

Packaging: 9 litre bucket.

WEBER REP 990 (KOMP A/KOMP B)

Two-component cement based slurry that prevents water and carbon dioxide to penetrate the structure. It is best applied by a sprayer and gives a texture to the surface that also gives the structure wear resistance against mechanical impact. Complies with **EN 1504-2**.

Packaging: 25 kg bag (komp A) and 8,5 kg container (komp B).



HANDAPPLIED CONCRETE REPAIR MORTAR

To repair small damages and cast joints without the need of any form work hand applied Concrete repair mortar will be the perfect choice. Due to its thixotropic texture overhead build is possible. Common application areas are car parks, bridge decks and columns.

WEBER REP 65

REP 65 is a single component fine graded concrete repair mortar. CEM 1 42,5 N SR 3 MH/LA binder ensures good sulphate resistance and in line with building requirements for structures in highly exposed environments. Because of its thixotropic consistence, no formwork is needed for concrete repair or filling in thicknesses from 5 mm up to 50 mm per layer.

Packaging: 20 kg bag.

WEBER BETOHEFT ANLÄGGNING

The weber betoheft anläggning gives optimal conditions for good adhesion between old and new concrete when repairing with other weber REP products (for example weber REP 65). Weber Betoheft anläggning is also suitable for environments with high exposure of chlorides and sulphates in frost-exposed environments. The product can also be used as a slurrie to fill voids and as a surface protection to provide an extra barrier against moist and chlorides.

Packaging: 25 kg bag



SITE EQUIPMENT

Weber offers a broad portfolio of rental equipment suitable for different kind of products and jobs ranging between small renovation tasks to full size castings. Get in touch with your local Weber contact to get the best site equipment system for your project.

TBS 3000

weber TBS 3000 is a dry concrete sprayer with a high capacity in relation to its compact design, and the work can be carried out without interruption for refilling. Dry concrete spraying means that the material is blown dry through the hose, and water is added to the nozzle. Material capacity 1-3 m³/hour.

WEBER 860 MIXER-PUMP

Our smallest mixer pump for fine graded products. Suitable for grouting- and anchoring jobs with low volume castings (0-1 m³). Mixes and pumps approximately 2 tons ready mixed concrete per hour with maximum grain-size of 2 mm. The machine is to be used with small bags with small bags.

WEBER DUOMIX 2000 MIXER-PUMP

Mixer pump for fine to medium coarse materials, suitable for casting volumes from 0-5 m³. Mixes and pumps approximately 4 tons of material per hour with a maximum grain size of 4 mm. The machine can be loaded with small bags or connected to one of the silo systems TB10 or ST5 for larger jobs.

WEBER D100 MIXER + BRINKMAN PUMP

Mixer pump for fine to medium graded materials, suitable for medium volume castings jobs (0-5 m³). Mixes and pumps approx. 4 tons ready mixed concrete per hour with a maximum grain-size of 4 mm. Possible to charge with small bags or combine with silosystem TB10 or ST5.

ST5 SILO

Silo that can store 3 tons of material. Charged with big bags.

WEBER TB10 SILO

Silo that can store 10 tons of material. Charged with big bags.

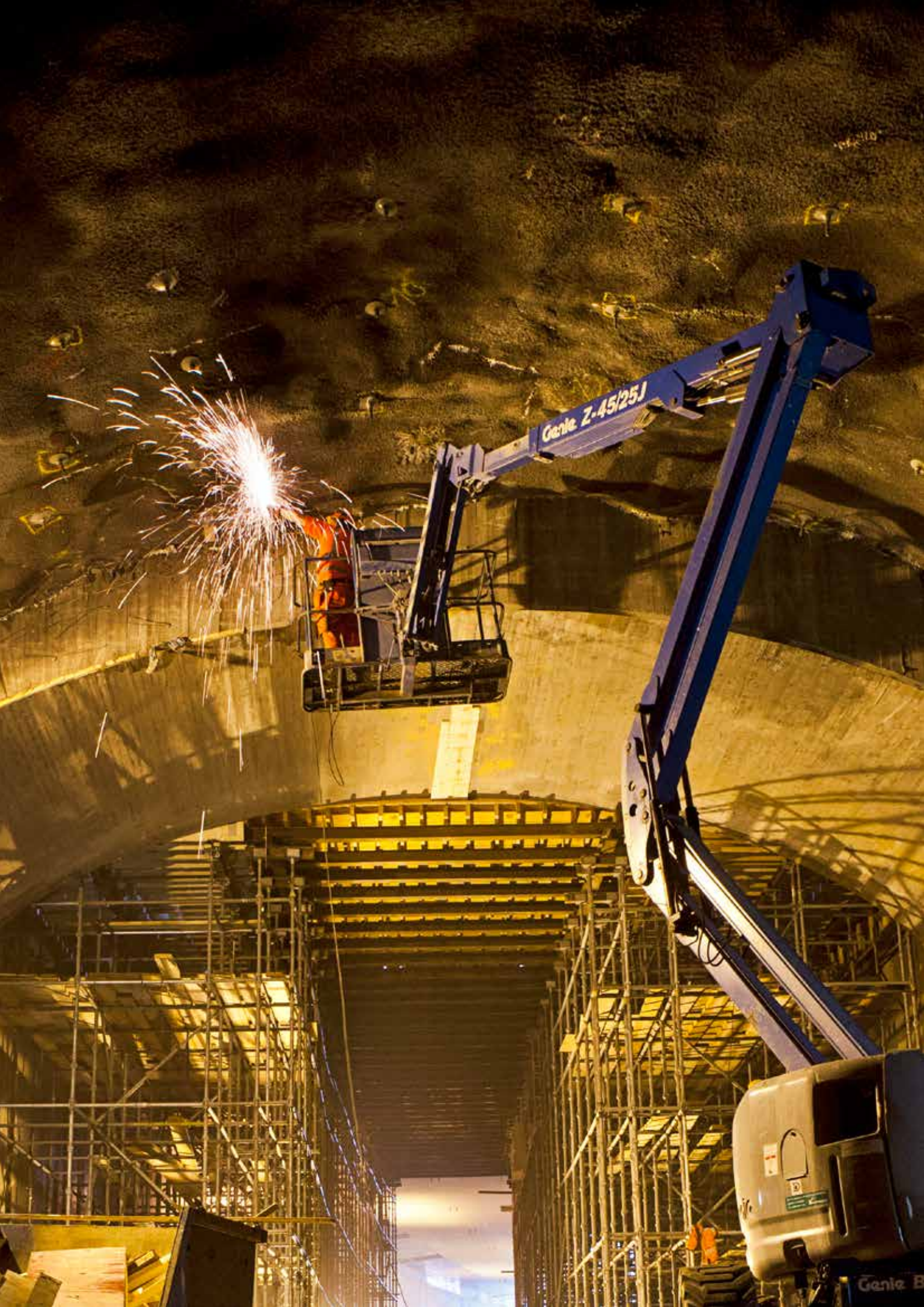
WEBER PUMP-TRAILER

Pump trailer for big casting jobs, charged with bulk or big bags and have the capacity to mix and pump approx. 15 tons of ready mixed concrete per hour. Get in touch with your local Weber contact for availability.



Concrete solutions for high-performance constructions







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