

BEMIX
— en del av Finja

SPECIAL MORTARS FOR CHALLENGING SITUATIONS





FINJA BEMIX AB

As part of Finja we mainly develop special mortars, supplying them to the Swedish construction industry, and we have a wide range of advanced and customised expanding mortars. The products are aimed at professionals and their areas of use include everything from the advanced underpinning of machines, crane runways, overhead cranes, columns and bridge bearings to anchoring bolts in rock and jointing prefabricated concrete elements.

Deliveries are made throughout Sweden, and the Öresund Bridge, Emporia, Friends Arena, New Karolinska Solna hospital and Mid Sweden University in Sundsvall are few of the examples of construction projects where our products have been used. They were also put to good use with the extensive renovation of the Tingstad Tunnel. For us, the entirety is what is important, and in addition to materials and expert assistance, we provide machinery and equipment of the highest quality. Presently we are 10 employees and have our sights on an annual turnover of SEK 100 million.

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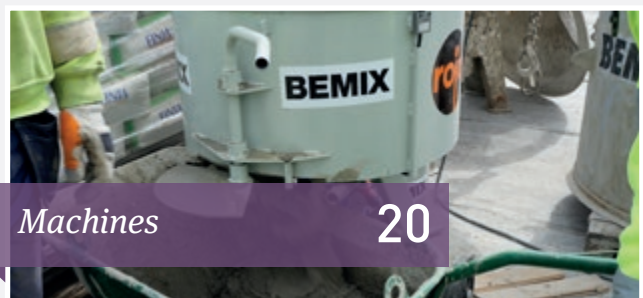
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A BIG LITTLE BUSINESS

Finja is a Swedish family business whose journey began with a gravel pit acquired in 1957. Add a large amount of knowledge, dedication and courage and you'll have today's company – one of the country's largest companies in the concrete industry.

Our companies complement each other and cover everything from masonry and plastering construction solutions to sand, special mortars and prefabricated solutions for residential, office, industrial and agricultural buildings.

We currently employ close to 800 people and aim for a turnover of SEK 2 billion. At Finja we value being close to our customers and we are present in a number of locations in Sweden and Norway. We are constantly growing but the fast-paced action of the small original company remains and we are developing new products and reinvest in modern production facilities. Everything to keep us in good shape to continue our journey.





Friends Arena, Solna

EXPANDING MORTAR

Special mortars for challenging situations

We specialise in expanding cement/mortar adapted i.a. for underpourings that require easily pumped, non-shrinking material with high strength. As the name suggests, the products expand before they harden.

Unlike ordinary concrete, which shrinks as the water evaporates, our expanding cement is an almost non-shrinkage expanding cement which is mixed with water. The adhesion to both steel and concrete is excellent, and thanks to a high final strength, the underpourings will additionally have a very long useful life. In order to effectively fill the forms and cavities, most of our expanding cements are pumpable and quick flowing in consistency.

Our range

Our wide range covers a number of areas of application, everything from the underpinning of machines, crane runways, columns and bridge bearings to screeding bathroom floors and anchoring bolts in rock. In the special mortar sector there are highly processed, bagged mortar products and equipment for underpinning and grouting. We also have a complete range of mortars for jointing prefabricated concrete elements.



A walk along the beach, Stockholm

Underpinning and pointing mortar

Underpinning machines, crane runways and overhead cranes

Bemix Standard is the product that should be used for underpinning and anchoring machines. This is because from an installation perspective it has the fastest strength increase (approximately 50 MPa after a 24 hour period at 20°C). It is also easy to pump and is fluid, which is vital for good underpinning.



Jointing when assembling prefabricated concrete

Bemix F4 pumped in thixotropic consistency with a pump and fused in the joints between the concrete elements, without formwork. This approach is much faster than conventional methods with formwork or spackling before filling. When jointing in freezing, Bemix F4 FF should be used, as it contains refrigerant additives.



Underpinning columns

Bemix P3 and Bemix S3 are underpinning mortars suitable for the underpinning of concrete or steel columns. In freezing temperatures, use Bemix Köldbruk cold mortar or alternatively add Köldbetongtillsats cold concrete admixture to Bemix P3 or Bemix S3. Bemix S3 contains plastic fibre in order to reduce cracks, which may occur with thicker castings or the casting of large areas.



Underpinning of bridge bearings

Bemix A3 is based on Portland construction cement and is used for the underpinning of bridge bearings, often with using a pump from Bemix. The product is approved according to AMA Anläggning for the underpinning of bridge bearings and embedding guardrail posts. In freezing temperatures, use Bemix A3 FF, which also meets the requirements according to AMA Anläggning and contains a cold admixture for casting down to -10°C.



Expanding mortar



Pumpable expander mortar that is used for undercasting and filling when quick and high strength are required. Used when high undercasting requirements have been determined, such as for: machine undercasting, bolt anchorage and bridge bearings.

Compressive strength at 20°C after 28 days: > 80 MPa.

| Art.nr | Product | Weight |
|---------|----------------|--------|
| 1100000 | Bemix Standard | 25 kg |



Expanding underpinning mortar for machine underpinning and securing for fine ballast requirements. Running consistency and good pumpability. Compressive strength at 20°C after 28 days: > 70 MPa.

| Art.nr | Product | Weight |
|---------|-----------|--------|
| 1100030 | Bemix Fin | 25 kg |



Pumpable expander for underpinning and casting of bathroom floors (fast drying). Compressive strength at 20°C after 28 days: > 60 MPa.

| Art.nr | Product | Weight |
|---------|----------|--------|
| 1100150 | Bemix P3 | 25 kg |



Pumpable expander for underpinning. Especially suitable for casting free areas such as in-situ castings and foundations. The fibres help to hold the fresh mix together, which, with special equipment, simplifies underwater casting. Compressive strength at 20°C after 28 days: > 60 MPa.

| Art.nr | Product | Weight |
|---------|----------|--------|
| 1100310 | Bemix S3 | 25 kg |



Pumpable expander mortar that meets the requirements of AMA Anläggning. Used for anchoring and demanding undercastings of e.g. machinery and bridge bearings. Compressive strength at 20°C after 28 days: > 70 MPa.

| Art.nr | Product | Weight |
|---------|----------|--------|
| 1100110 | Bemix A3 | 25 kg |



Pumpable expander mortar that meets the requirements of AMA Anläggning. Contains antifreeze additive for casting down to -10 °C and is used for anchoring and demanding undercastings of, for example, machinery and bridge bearings. Compressive strength at 20°C after 28 days: > 60 MPa.

| Art.nr | Product | Weight |
|---------|-------------|--------|
| 1100090 | Bemix A3 FF | 25 kg |



Thixotropic, pumpable and expanding jointing compound for joining of concrete elements and granite blocks. Compressive strength at 20°C after 28 days: > 40 MPa.

| Art.nr | Product | Weight |
|---------|----------|---------|
| 1100200 | Bemix F4 | 25 kg |
| 1100340 | Bemix F4 | 1000 kg |



Thixotropic, pumpable and expanding jointing compound. Contains a cold weather additive for down to -10°C and is used for sealing of concrete elements and granite blocks. Compressive strength at 20°C after 28 days: > 40 MPa.

| Art.nr | Product | Weight |
|---------|-------------|---------|
| 1100300 | Bemix F4 FF | 25 kg |
| 1101640 | Bemix F4 FF | 1000 kg |



Thixotropic and pumpable expander mortar. Mainly used for jointing where a joint with good seal and high strength is required and for anchoring steel in vertical surfaces. Compressive strength at 20°C after 28 days: > 70 MPa.

| Art.nr | Product | Weight |
|---------|---------------------|--------|
| 1100420 | Bemix High Tech 310 | 25 kg |



Thixotropic and pumpable expander. Contains a cold weather additive for casting down to -10°C and is used primarily for sealing where a joint with good seal and high adhesion is required. Also suitable for smaller castings with higher demands. Compressive strength at 20°C after 28 days: > 50 MPa.

| Art.nr | Product | Weight |
|---------|------------------------|--------|
| 1100520 | Bemix High Tech 310 FF | 25 kg |



A chloride-free antifreeze for mortar and concrete which contributes to the growth of strength even at subzero temperatures. It also reduces the risk of frost damage when there is a risk of early freezing.

| Art.nr | Product | Weight |
|---------|--------------------|--------|
| 1110035 | Köldbetongtillsats | 10 kg |

Expanding mortar



Ready-mixed expanding cold mortar for grouting in minus degrees or when rapid formwork removal is needed. Used for underpinning of pillars, prefab elements and similar.
Compressive strength at 20°C after 28 days: > 40 MPa.
IMPORTANT TO NOTE! Not pumpable



Pumpable expander that for filing cavities and underpinning of pillars and machines, as well as for filling core joints for element joints etc. Also suitable for casting of, e.g. stairs, foundations and supporting walls.
Compressive strength at 20°C after 28 days: > 50 MPa.



Pumpable expander that contains a cold weather additive for casting, joining and underpinning down to -10°C.
Compressive strength at 20°C after 28 days: > 50 MPa.

| Art.nr | Product | Weight | Art.nr | Product | Weight | Art.nr | Product | Weight |
|---------|----------------|--------|---------|----------------------|---------|---------|-------------------------|---------|
| 1100040 | Bemix Köldbryk | 25 kg | 1100650 | Bemix Elementfogbruk | 25 kg | 1100660 | Bemix Elementfogbruk FF | 25 kg |
| | | | 1100190 | Bemix Elementfogbruk | 1000 kg | 1100250 | Bemix Elementfogbruk FF | 1000 kg |



Grout injector

Accessories

Brukssprutor

For joining concrete elements and stone walls, filling moulds in confined spaces, boreholes in all directions and underpinning. Holds approx. 1 litre.



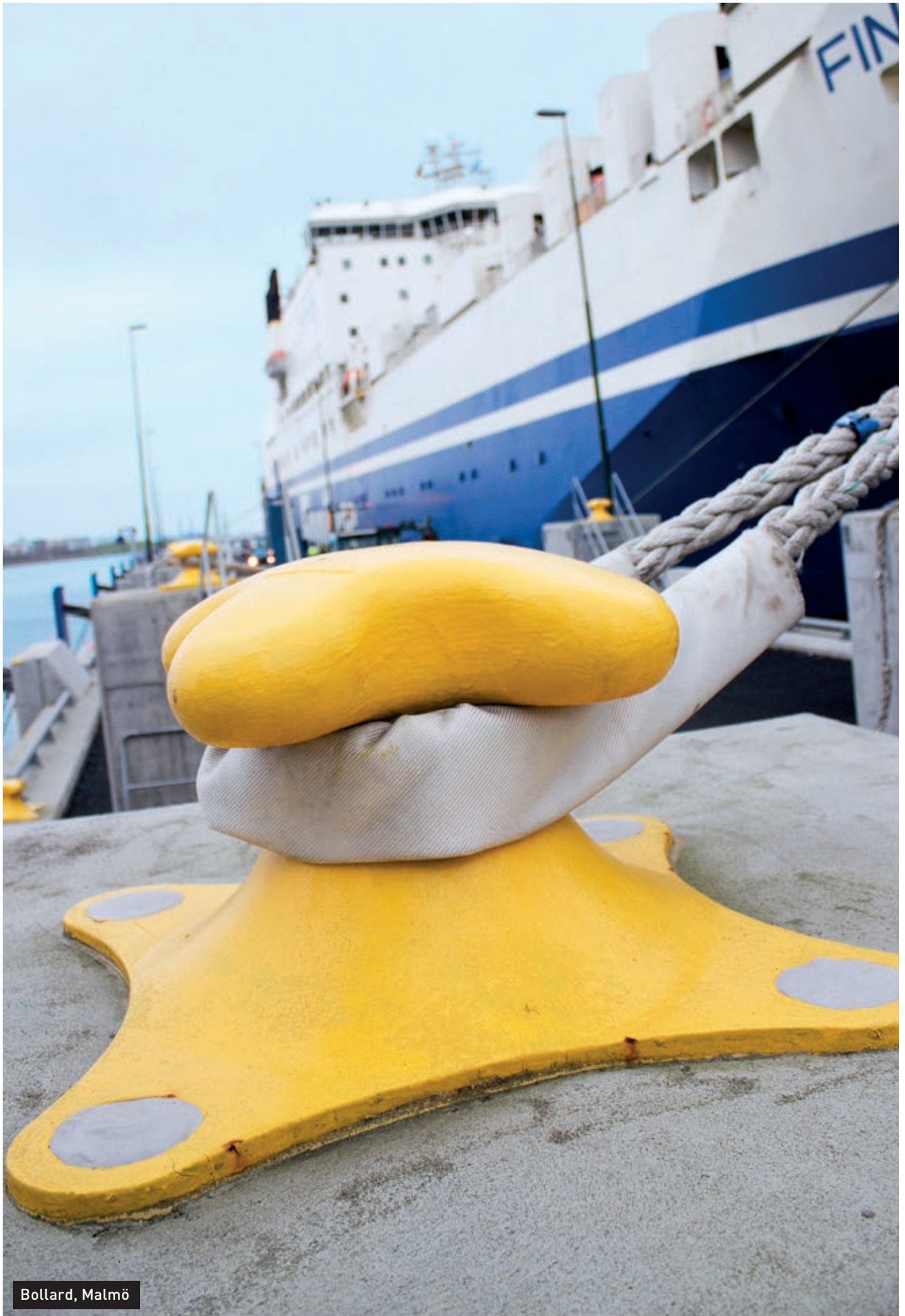
Equipment that facilitates

We can supply the most essential accessories for prefabricated concrete installation. Ergonomics and quality characterise our products, which not only make the work easier but make it comfortable.



| Picture | Art.nr | Product |
|---------|---------|-----------------------------|
| 1 | 2810005 | Bemix Bruksspruta rak |
| 2 | 2810015 | Bemix Bruksspruta böjd rak |
| 3 | 2810035 | Bemix Bruksspruta rund |
| 4 | 2810025 | Bemix Bruksspruta rund böjd |

| Picture | Art.nr | Product | |
|---------|---------|--------------------|------------------|
| 1 | 1150535 | Bemix Ergospackel | 200 mm |
| 2 | 1150545 | Bemix Ergospackel | 350 mm |
| 3 | 1150565 | Bemix lläggarslev | 140 mm |
| 4 | 1150505 | Bemix Blandarhink | 20 l |
| 5 | 1150575 | Bemix Fogkanna | 14 l |
| 6 | 1150555 | Bemix Betongskrapa | 300 x 200 x 1 mm |
| 7 | 1150585 | Bemix Vinkelpensel | |
| 8 | 2910115 | Bemix Skyddshuv | |



Bollard, Malmö

REPAIR MORTAR

Complete range of repair products

There are many external factors, both chemical and mechanical, that affect the degradation of concrete. A faulty design or faulty workmanship are the most common causes of concrete damage, but often the damage is due to a combination of several different factors.

The damage should be inspected before repairs are started. This is to find out what has caused the damage in order to undertake the correct repair procedure. Factors investigated in an inspection include the strength of the concrete, the condition of the reinforcement, carbonation depth and concrete cover to reinforcement. Straightforward types of damage can be inspected visually with the help of a chisel, whereas more complicated types of damage should be inspected by an expert.

Our range

We have extensive expertise in the repair and reinforcement of concrete and therefore have a range of products aimed at just that. The range includes several different products, from corrosion-inhibiting primer to high-performance repair mortar.



Bridges, Malmö

Concrete repair and methods

Preparation

A prerequisite for successful concrete repair is proper preparatory work. The area to be repaired must be thoroughly cleaned. All damaged concrete and reinforcement bar corrosion must also be removed. This can be done by hand or means of mechanical assistance such as hydroblasting or other blasting. Select the cleaning method taking into consideration the extent of the damage. Damaged rebar or other reinforcement bar should be supplemented or replaced.

The coating layer should never be less than 20 mm, and depending upon the type of construction, the coating layer may need to be much thicker than that. In order to avoid cavities, the site being repaired should have a suitable form.

Without formwork

The repair site should be watered until it is moist, i.e. not no longer very absorbing but not saturated. The cleaned concrete and reinforcement bar are then covered with Bemix Korrohäft. The next layer is to be applied before the Bemix Korrohäft has dried. Then the damage is built up with Bemix R50, which is an easy-to-use and malleable repair mortar.

Repairs with lower requirements can be dealt with by using Bemix Betongspackel concrete putty, which is ideal for many repair places, has a long workability time and a smooth consistency.



Korrohäft

Cement-based grout for enhanced adhesion to concrete and steel. As top layer, the product is suitable on concrete and steel surfaces not subject to mechanical wear.

| Art.nr | Product | Weight |
|---------|-----------------|--------|
| 1100370 | Bemix Korrohäft | 5 kg |

With formwork

The repair site should be watered until it is moist, i.e. not no longer very absorbing but not saturated. For minor repairs and with a thin coating layer, the concrete and reinforcement bar is to be pre-treated with Bemix Korrohäft. Ordinarily, larger castings do not need to be pre-treated with Bemix Korrohäft, if the watered concrete has a rough, hewn surface.

Castings are done with Bemix P3 or Bemix A3, depending upon the film thickness of the layer. These products have a high resistance to frost, chemicals and mechanical abrasion. In addition, they provide good protection for the reinforcement bar.

Shotcrete

Hydroblasted surfaces ordinarily do not need additional pre-treatment. Surfaces cleaned dry should be washed with water at high pressure. When applying shotcrete (sprayed concrete), the surface should be slightly absorbent. Any exposed reinforcement bar should be treated with Bemix Korrohäft anti-corrosion bonding slurry. Then Bemix SP40 is applied using dry mix spray equipment. The concrete is based on Portland construction cement and adapted to repairs having a requirement of low shrinkage and minimal cracking. Shotcrete is available up to 6 millimetres.

Wrap-up

After a repair, the mortar or concrete needs to be protected against too rapid drying. This can be done either by means of spraying with water or, if feasible by covering with plastic or alternatively wet fabric, for about one week. The treatment should be adapted based on which product has been used and the prevailing climate.

If a more uniform surface structure is desired following a repair, Bemix Korrohäft anti-corrosion bonding slurry can be applied to the repair site and surrounding concrete, as long as the surfaces are not subject to wear.



Repair mortar



High-performance, fibre reinforced, shrinkage compensating, thixotropic repair concrete for repairs in concrete where there is a requirement for high performance and durability. Can be used on vertical surfaces without the need for formwork.

Compressive strength after 28 days:

> 45 Mpa



Filler that has longer workable times for concrete substrates. Used for filling pores and joints from casting, as well as for repairing stairs, balconies etc. Especially good for time consuming repairs.

Compressive strength after 28 days:

> 10 Mpa



Spray concrete specially adapted for dry spraying. Used for repairs where commands on minimum shrinking and crack-building exist, for example, cladding of tunnels, strengthening of pillars, beams, quays and other concrete constructions.

Compressive strength after 28 days:

≥ 60 MPa

| Art.nr | Product | Weight |
|---------|-----------|--------|
| 1100270 | Bemix R50 | 25 kg |

| Art.nr | Product | Weight |
|---------|---------------------|--------|
| 1100750 | Bemix Betongspackel | 25 kg |

| Art.nr | Product | Weight |
|---------|------------|---------|
| 1100800 | Bemix SP40 | 25 kg |
| 1100810 | Bemix SP40 | 1000 kg |

Byggpall construction pallet return systempall

The Byggpall construction pallet return system is the construction industry's own system for pallets. The system has many advantages, but above all it results in less expensive, easier to use and more environmentally-friendly pallet handling at all stages.

Thanks to the return system pallet handling at the worksite is reduced, as obtaining, repair and re-purchase is included, which contributes to a more efficient returns processing. The system is a circular system which the pallet follows along

with at all stages and finally is sold back to be reused again. At the first stage, the supplier buys the Byggpall construction pallet full (or half full) from the system's designated pallet supplier, after which they and the intermediary invoices its customer.

After being finished using it, the final user sells the pallet back at a fixed price, irrespective of quality/condition. This makes the system a financially advantageous alternative, while contributing to reducing construction waste.

More information can be found at www.byggpall.se



Filling and adjustment on a base of concrete, stone and ceramics, plaster of at least class CS II and plasterboard. Used on walls and ceilings. Suitable as an underlayment for tile, wallpaper and paint. For indoor use.
Compressive strength at 20°C after 28 days:
> 10,0 MPa.

Seals the substrate and prevents water from the concrete getting into it. The product also greatly enhances adhesion.

| Art.nr | Product | Weight | Art.nr | Product | Weight |
|---------|-----------|--------|---------|--------------|--------|
| 1100285 | Laga Vagg | 15 kg | 1100395 | Bemix Primer | 5 L |



Byggpall



Mixer and pump, Rojo 80/S30 HD 40

MACHINES

Pumps, mixers and machine packages

With us, you will receive personalised advice and instructional assistance, and upon request, we will also come out to your construction site and ensure that the work gets started and will be up and running as it should be.

In other words, with our machines, accessories and expert assistance, you will feel safe and secure along the entire journey.

We also offer personal advice and instructions. If you want we can come to your site to ensure that work gets going and runs as it should. Using our machines, accessories and expertise means that you can feel secure throughout the process.

Our range

We supply machines and accessories that are practical, reliable and easy to use. They have been developed to work optimally with our products and, in combination with our special mortars; these machines can make your construction process more effective. At the same time as you purchase material from us you have the opportunity to hire or buy machinery. Among other things we have the advantage of being the general agent for Rojo which manufactures some of the best and toughest mixers for professional use on the market.



Pumps

Pumps

For the best results we offer end-to-end solutions. This is possible thanks to our comprehensive machine park including pumps, mixers and flat mixers. We have everything from hand operated injectors to pumps for

injection, jointing, rendering, underpinning etc. Our pumps are available for sale or hire. A hose is not included, but of course one can be rented.



Jointing concrete elements with Bemix F4 and Bemix F4 FF.



Heavy duty and reliable pump that fits well under flat mixers such as the Rojo 80. Suitable for use with Bemix 310, Bemix 310 FF, Bemix F4, Bemix F4 FF, Bemix Elementfogbruk and Bemix Elementfogbruk FF.

| Art.nr | Product |
|---------|----------------|
| 2820309 | Brukspump S 30 |

| Art.nr | Product |
|---------|----------------------|
| 2820319 | Brukspump S 30 HD 40 |

Which pump should I choose?

| | S 30 | S 30 HD 40 | S 44 | S 48 |
|--------------------|--|--|--|--|
| Part number | 2820309 | 2820319 | 2820339 | 2820349 |
| Capacity | 10–30 l/min | 10–50 l/min | 20–40 l/min | 20–50 l/min |
| Maximum stone size | 4 mm | 6 mm | 4 mm | 4 mm |
| Pump hose | 1"–1 1/4" | 1"–1 1/4" | 1"–1 1/4" | 1"–1 1/4" |
| Motor | 3-phase power supply | 3-phase power supply | 3-phase power supply | 3-phase power supply |
| Weight | 120 kg | 140 kg | 130 kg | 220 kg |
| Can be used with | Bemix F4, 310 as well as winter use | Bemix F4, Elementfogbruk, 310 as well as winter use | Bemix F4, 310 as well as winter use | Bemix F4, 310 as well as winter use |



Mono screw pump. Suitable for pumping Bemix F4, Bemix F4 FF, Bemix High Tech 310, and Bemix High Tech 310 FF.

| Art.nr | Product |
|---------|----------------|
| 2820349 | Brukspump S 48 |



Pumps thixotropic mortar such as Bemix High Tech 310, Bemix High Tech 310 FF, Bemix F4 and Bemix F4 FF. Excellent for jointing concrete elements or blocks of granite.

| Art.nr | Product |
|---------|----------------|
| 2825625 | Brukspump S 36 |

| | S 36 | MP 1 | TS 750 V | TS 2 MN |
|--------------------|--|--|--|--|
| Part number | 2825625 | 2820209 | 2820219 | 2820229 |
| Capacity | 10–20 l/min | ~1 m ³ /h | 0,7–1,5 m ³ /h | ~2 m ³ /h |
| Maximum stone size | 4 mm | 4 mm | 4 mm | 4 mm |
| Pump hose | 1"–1 1/4" | 1 1/4"–2" | 1 1/4"–2" | 1 1/4"–2" |
| Motor | 1-phase power supply | 1-phase power supply | 1-phase power supply | 3-phase power supply |
| Weight | 105 kg | 80 kg | 78 kg | 140 kg |
| Can be used with | Bemix F4, 310 as well as winter use | Bemix Standard, A3, Fin as well as winter use | Bemix Standard, A3, Fin as well as winter use | Bemix Standard, A3, Fin as well as winter use |

Mixers

Rojo's mixers

Rojo mixers are reliable, heavy duty and robust and are excellent at mixing concrete, mortar and fireproof filler, but also rubber chips, ash, chemical fertiliser and soil. Unique to Rojo mixers is that all components can be replaced and that it is easy to obtain spare parts.

They are also CE marked in accordance with the European safety standard. Another important benefit is that because all components are easily accessible they are easy to empty and clean. The mixers are available for sale or hire.



The **Rojo 80** is a new compact model which can mix the toughest materials such as earth-moist concrete. The drum is made of Hardox 400 which is a very durable steel.

| Art.nr | Product |
|---------|----------------------|
| 2830089 | Planblandare Rojo 80 |



The **Rojo 230** is a batch mixer for plaster, mortar and concrete. The open structure under the mixer makes it easy to empty into a wheelbarrow or screw pump.

| Art.nr | Product |
|---------|----------|
| 2830059 | Rojo 230 |

Which mixer should I choose?

| | Rojo 50 | Rojo 80 | Rojo 130/230 |
|-----------------|-----------------------------|-----------------------------|--|
| Part number | 2830119 | 2830089 | 2830059 |
| Capacity | 50 kg mortar or concrete | 150 kg mortar or concrete | 125 l/225 l |
| Total height | 164 cm + 250 mm wheel | 116 cm + 250 mm wheel | 140 cm |
| Weight | 90 kg | 155 kg | 400 kg/500 kg |
| Motor | 1,5 kW 400 V/50 Hz 250 rpm | 3,0 kW 400 V/50 Hz 44 rpm | 4 kW (5,5 hk) 400 V/50 Hz 3 rpm, 3-phase |
| Materials | Galvanized or painted steel | Hardox 400, painted steel | Engineering steel |
| Draw off height | 76 cm | 65 cm | 63 cm |
| Max. width | 110 cm | 76 cm | 148 cm |
| Cover | - | Grid cover with sack cutter | Fibreglass |

Bulk bag holder

Bulk bag holder/bag emptier

Using our practical bulk bag holder means that there is less lifting to be done which makes work easier and saves your back. Holds between one and ten tonnes.



ST1 Big bag containers with screw pocket. Holds metric one ton.

| Art.nr | Product |
|---------|---------|
| 2840009 | ST 1 |



ST3 Big bag containers with pocket. Holds approximately two metric tons.

| Art.nr | Product |
|---------|---------|
| 2860009 | ST 3 |



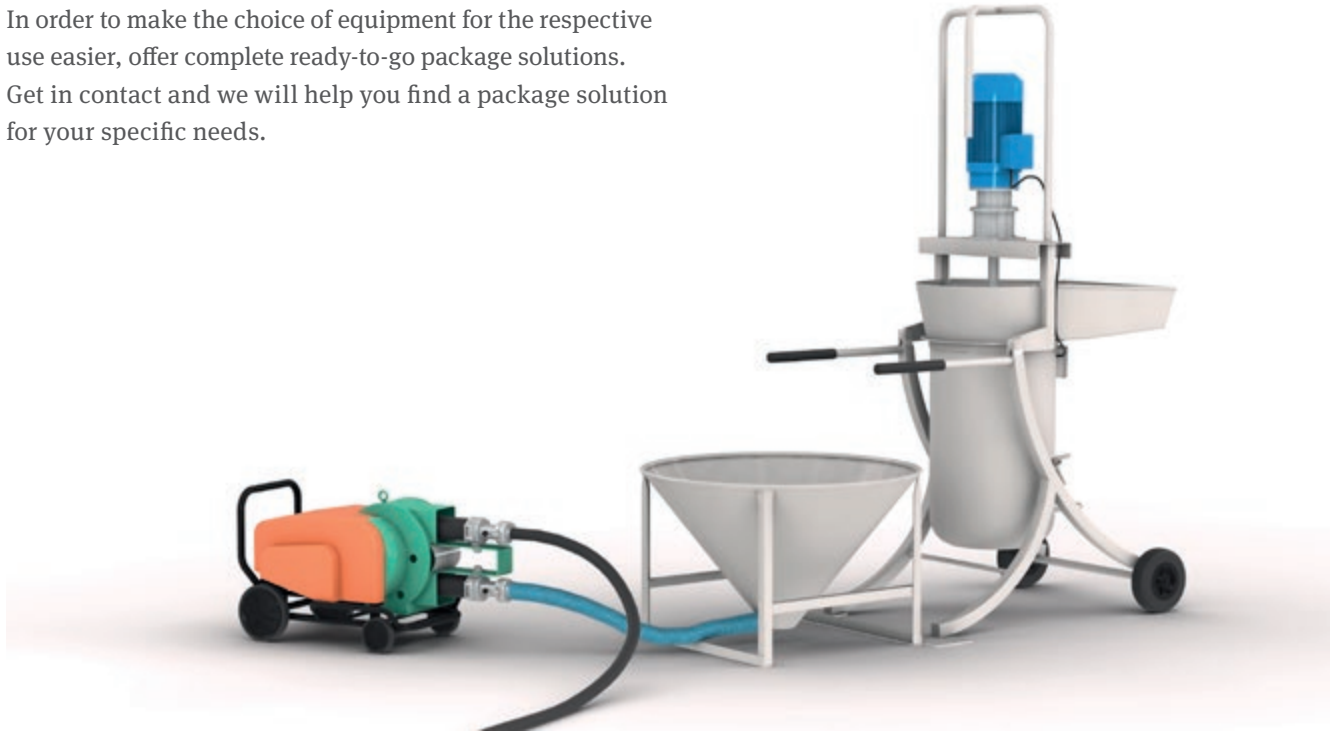
ST5 Big bag containers with screw pocket. Holds approximately two metric tons.

| Art.nr | Product |
|---------|---------|
| 2810019 | ST 5 |

Machine packages

Our package solutions

In order to make the choice of equipment for the respective use easier, offer complete ready-to-go package solutions. Get in contact and we will help you find a package solution for your specific needs.



Rapid mixer equipment

Rojo 50 rapid mixer, drum, hose and hose pump TS 750 V. Suitable for small underpinning jobs from approximately 100 kg up to a couple of tonnes.



Automatic mixer equipment

Automatic mixer 404, drum, hose and hose pump TS 750 V. Suitable for slightly larger underpinning jobs from a couple of tonnes and upwards.



Jointing and bulk bag equipment

Pump S 30 HD 40, Rojo 80 mixer and ST 1 bulk bag holder. For prefabricated concrete installation with a lot of jointing.



Water barrel with immersion heater

Accessories

To give you the best conditions for your construction process we also supply accessories for machines, such as Wireless remote control and pump hoses.

| Art.nr | Product |
|---------|-----------------------------|
| 2920045 | Pumpslang |
| 2920035 | Trådlös fjärrstyrning |
| 2850035 | Tryckstegringspump |
| 2850025 | Vattentunna med doppvärmare |



Fracturing using Snigeldynamit

SNIGELDYNAMIT®

High-expansion cement for quiet and effective fracturing

Sometimes conventional blasting techniques cannot be used to remove boulders, rock outcrops or concrete foundations, because of their location. Use snigeldynamit (snail dynamite) to fracture stone, rock and concrete – silently, simply and carefully without impacting the surrounding area. The product can be used both outdoors and indoors, above ground and under water, as long as the temperature is above freezing.

Fracturing stone, rock and concrete using snigeldynamit is simple. It is vibration-free and does not cause fragmentation or gassing. No licence is needed to buy or use the product, and nor is expensive pre-inspection or re-inspection of neighbouring buildings. Fracturing is carried out when and where you want. All in all this gives a safe and satisfactory result and is economically sound.

How does Snigeldynamit® work?

Snigeldynamit is a lime-based product that is mixed with water and which expands slowly as the mixture hardens. As it expands the pressure builds to over 80 MPa (8000 tonnes/m²). This means that granite, with a splitting tensile strength of 6–16 MPa, can be fractured easily. The same applies to plain concrete (3–5 MPa).

The expansion continues even after cracks have formed in the object. This expands the cracks even further, which makes transporting the fractured material away easy.



Snigeldynamit®

Used for soundless, dust-free and vibration-free splitting of stone, rock and concrete. Damage to neighbouring objects and buildings, which can easily occur with conventional blasting, is avoided. Cracking pressure > 80 MPa.

| Art.nr | Product | Vikt |
|---------|----------------------|-------|
| 1134135 | Bemix Snigeldynamit® | 4 kg |
| 1134145 | Bemix Snigeldynamit® | 10 kg |

Instructions for use

Drilling holes

Because snigeldynamit expands at right angles to the hole, drill as parallel to the open face as possible. This provides the best possible fracturing.

Mixing

If the temperature of the object is above 20°C mix the snigeldynamit to a runny, gruel like consistency using the coldest water possible. If it is less than 10°C, use water at 20°C. Too much water reduces the force of expansion, so it is important to take care regarding the amount of water used.

Filling the holes

Handing times are short so the hole should be filled as soon as the mixture is ready.

Correct temperature

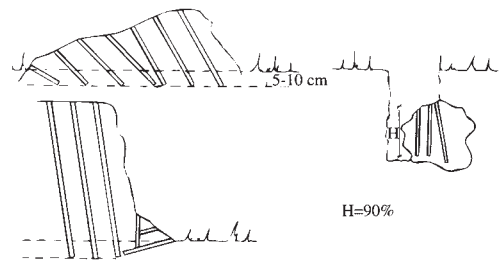
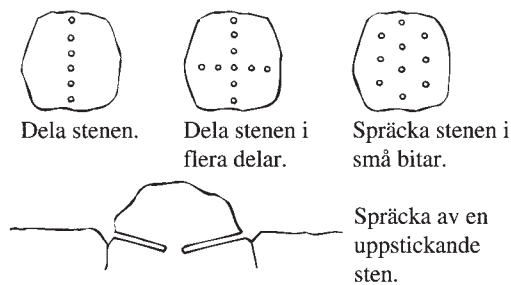
To avoid blowout the temperature is important. Blowout means that the mixture spurts out of the hole. This can occur if the rock or stone is too hot when it is filled, or if the temperature of the mixture is too high. The risk of blowout also increases when the diameter of a drill hole exceeds 40 mm, or in the case of holes drilled in concrete using a diamond drill bit. To minimise the risk of blowout cover the holes with wet sacking or the like and keep this wet for 24 hours.

Expansion and fracturing

Fracturing is usually complete after about a day. The structure and temperature of the object determines how long this takes. For example in rock it may take several days before fracturing is fully complete.



Drilling instructions



Stone

When drilling in stone make 30–40 mm diameter holes. The distance between the holes should be ten times the hole diameter, in other words 300–400 mm. The holes should be at least 300 mm deep and 80 per cent of the objects thickness. Larger holes provide a higher fracturing force.

Rock

When drilling in rock make 30–40 mm diameter holes. The distance between the holes should be five times the hole diameter, in other words 150–200 mm. The drilled depth should be 50 mm deeper than the intended crack-line. The holes must also be positioned so that fractured rock can fall away freely.

Remember...

Always use gloves and protective goggles as the mixture is alkaline and corrosive.

It is important that the hole diameter, depth and spacing is exactly right. The same applies to the water mixture and water temperature.

Never stand above filled holes. Blowout can take place if the temperature in the stone is too high when it is filled for example.

Read the detailed instructions in the packaging.

Usage table

| Hole diameter | Snigeldynamit® kg/metre | This is how far the different packages last | |
|---------------|----------------------------|---|-------|
| | | 4 kg | 10 kg |
| 35 mm | 1,8 kg | 2,2 m | 5,6 m |
| 38 mm | 2,1 kg | 1,9 m | 4,8 m |
| 44 mm | 2,7 kg | 1,5 m | 3,6 m |

See our films at



On our way to greener concrete

We have a natural commitment to sustainability issues; investing in the environment and the future comes instinctively. Since 2015 we have been self-sufficient in green electricity. Together our two wind power generators, up on Rödshöjden outside Sollefteå, produce almost 20 GWh of renewable energy. This is twice as much as the company consumes today; giving us the opportunity to grow while at the same time contributing to a sustainable society.

Please get in contact with us

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This brochure is intended to inspire and show examples of how different jobs can be carried out. Bemix is not responsible of structural solutions as the surrounding environment and the quality and condition of the substrate play an important role. For up-to-date information always refer to www.bemix.se.

