



ZELLER+GMELIN

Construction

Divinol Release agents for concrete and asphalt





Zeller+Gmelin

The brand with the clear plus

Zeller+Gmelin is a medium-sized, international manufacturer of lubricants, printing inks and chemicals. The company with its head office in Eislungen/Fils, which was founded in 1866, is still family-owned. With 19 subsidiary companies and many partners, we are well connected throughout the world and deliver our high-quality products to more than 80 countries. We have understood and solved your problems for more than 150 years and will continue to do so in the future. This is how we create a tangible plus for our customers.

Because we understand the customer and develop solutions – reliably, flexibly and tailor-made.

The Construction business unit stands for high-quality top products in the field of concrete release agents, asphalt release agents and mixer protection. Internationally successful for over 50 years. The product range is completed by lubricating greases, engine and transmission oils for commercial vehicles and transmission and hydraulic oils for the construction industry.

Construction



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Please take a look at the current MSDS for all products offered.
The MSDS are always available on demand.



Business unit

Construction

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The Construction business unit stands for top-quality products for the construction sector for over 50 years.

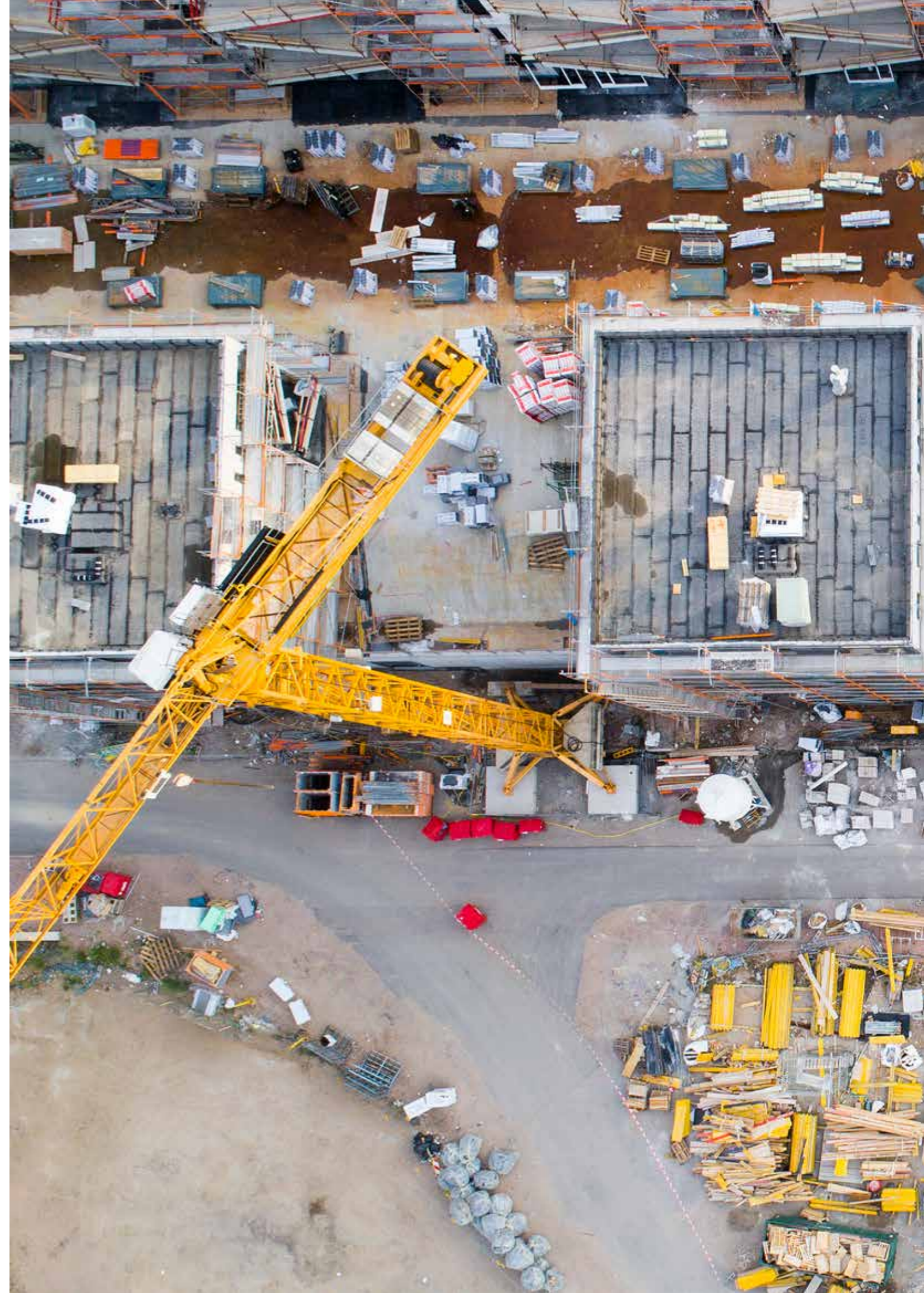
In the Construction business unit, everything revolves around concrete and asphalt. We are specialists when developing sophisticated concrete release agents for individual use in structural and civil engineering and in prefabrication plants, as well as high-quality asphalt release agents for road construction are concerned. In addition, we have many years of experience in the field of lubricants and greases.

Our products accompany the entire process of concrete processing, from transport from the concrete mixing plant to the construction site or to the precast plant with our mixer protection products, lubricating greases, transmission and hydraulic oils for commercial vehicles, to cleaning agents and auxiliary materials for the construction formwork and the actual release agents for the construction projects. The same applies to road construction with our asphalt release agents especially for your needs.

For your demanding applications, we supply you with the corresponding high-performance lubricants. We will be pleased to advise you on site in order to select the optimum lubricant or to develop a lubricant for your individual needs. It is not without reason that customers have been placing their trust in us for decades.

We provide you with everything from a single source:

- + Concrete release agents
- + Asphalt release agents
- + Transmission and Hydraulic Oil
- + Greases
- + Cleaner
- + Engine Oil



Concrete release agents

Concrete mixing plant – mixer protection

Top care and protection for concrete mixers, transport vehicles, working equipment and everything that comes into contact with fresh concrete.

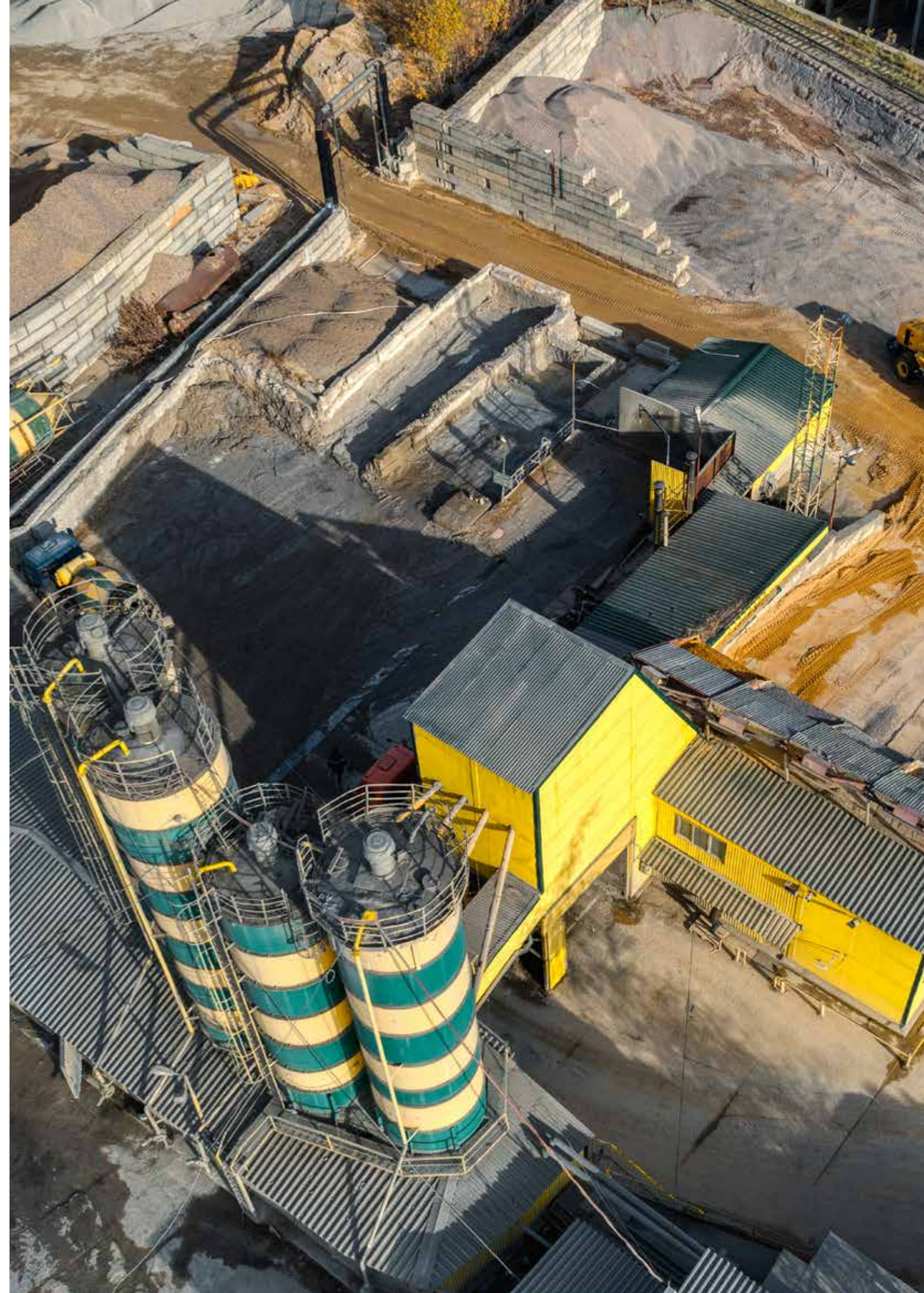
Ready-mixed concrete produced in concrete mixers in stationary concrete plants, requires not only water-repellent greases but also high-performance mixer protection products for the heart of the plant – the concrete mixer. This has the task of mixing the concrete batch in a short time. Here, Divinol mixer protection effectively prevents the concrete from sticking.

The drum of the truck and the discharge chute are sprayed with high-quality mixer protection with dewatering properties to prevent the concrete from sticking and to protect the metal parts from corrosion. This ensures a long service life of the equipment.

Environmentally friendly products based on vegetable oil here are preferred.

Product examples:

- + Divinol Mischerschutz Spezial
- + Divinol Mischerschutz DW
- + Divinol SYN BE Plus (Umwelt)
- + Divinol Multimax Advanced 5W-30
- + Divinol Multimax Premium 10W-40
- + Divinol Mehrzweckfett 2
- + Divinol Fett Top 2003



Concrete release agents

Structural and Civil Engineering / Precast Plant

Preparation of formwork and cleaning

In order to achieve desired quality of the concrete surface, cleaning and removal of adhering dirt, concrete and dust on the formwork are essential. After the cleaning process, formwork must be dried. Careful drying is important, as the release agent cannot absorb properly on damp surfaces.

In precast plant, formwork is roughly cleaned manually before use and then cleaned of concrete residues and dust with automatic brush systems. It should also be noted that corrosion protection agents are removed from steel formwork that has not been used for a long time.

For stubborn concrete residues, our Divinol concrete remover provides good services. The cleaner can be used effectively against deposits in a ratio of pure upto 1:5.

Product examples:

- + Divinol Betonlöser



Concrete release agents

Structural and Civil Engineering / Precast Plant

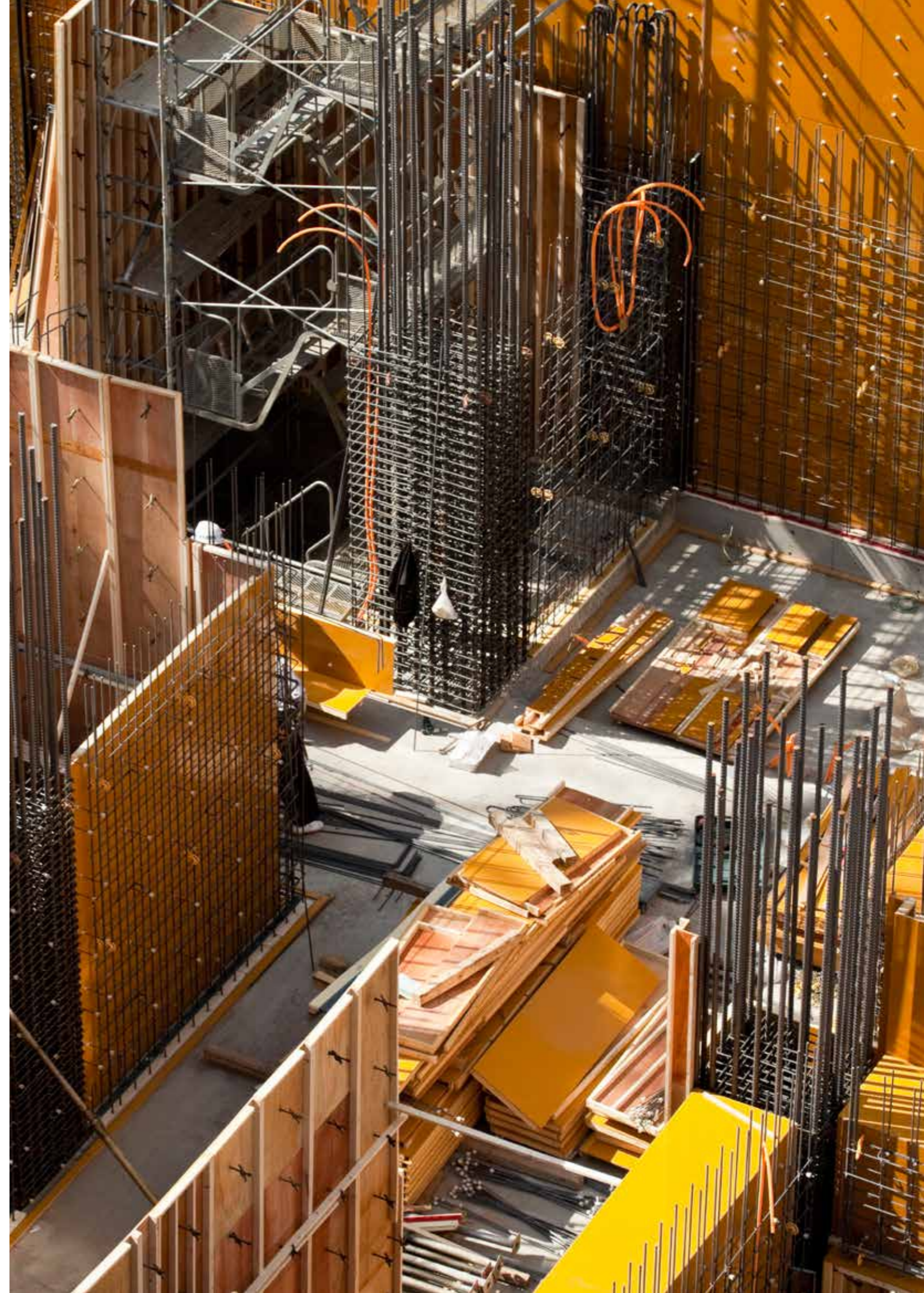
Pre-treatment of formwork

Divinol concrete release agents can be applied to all formwork used in practice. Depending on the various types and requirements of formwork such as steel formwork, all-plastic formwork, high-quality plastic-coated formwork, etc., we have the appropriate high-quality release agent for you in our program. These formworks do not require any pre-treatment.

In case of rough-sawn wooden formwork, pre-treatment of formwork is necessary, to avoid the so-called „wood sugar“. This occurs under the effect of the sun, whereby wood constituents are released and sanding occurs on concrete surface. This can be prevented by using our Divinol Schalwachs HFP. The product is sprayed on. After it has dried, the appropriate release agent can be applied.

Product examples:

- + Divinol Schalwachs HFP



Concrete release agents

Structural and Civil Engineering / Precast Plant

Application of the release agent

For perfect results and easy demolding, the concrete release agent must be applied professionally. On construction site the approved application method is spraying with portable pressure sprayers. Hereby the release agent is sprayed on formwork at high pressure.

Ideal results are achieved with a flat spray nozzle. This ensures an even and thin application of the release agent, which means that the product is used sparingly and economically.

Round jet nozzles, often lead to increased application of the release agent.

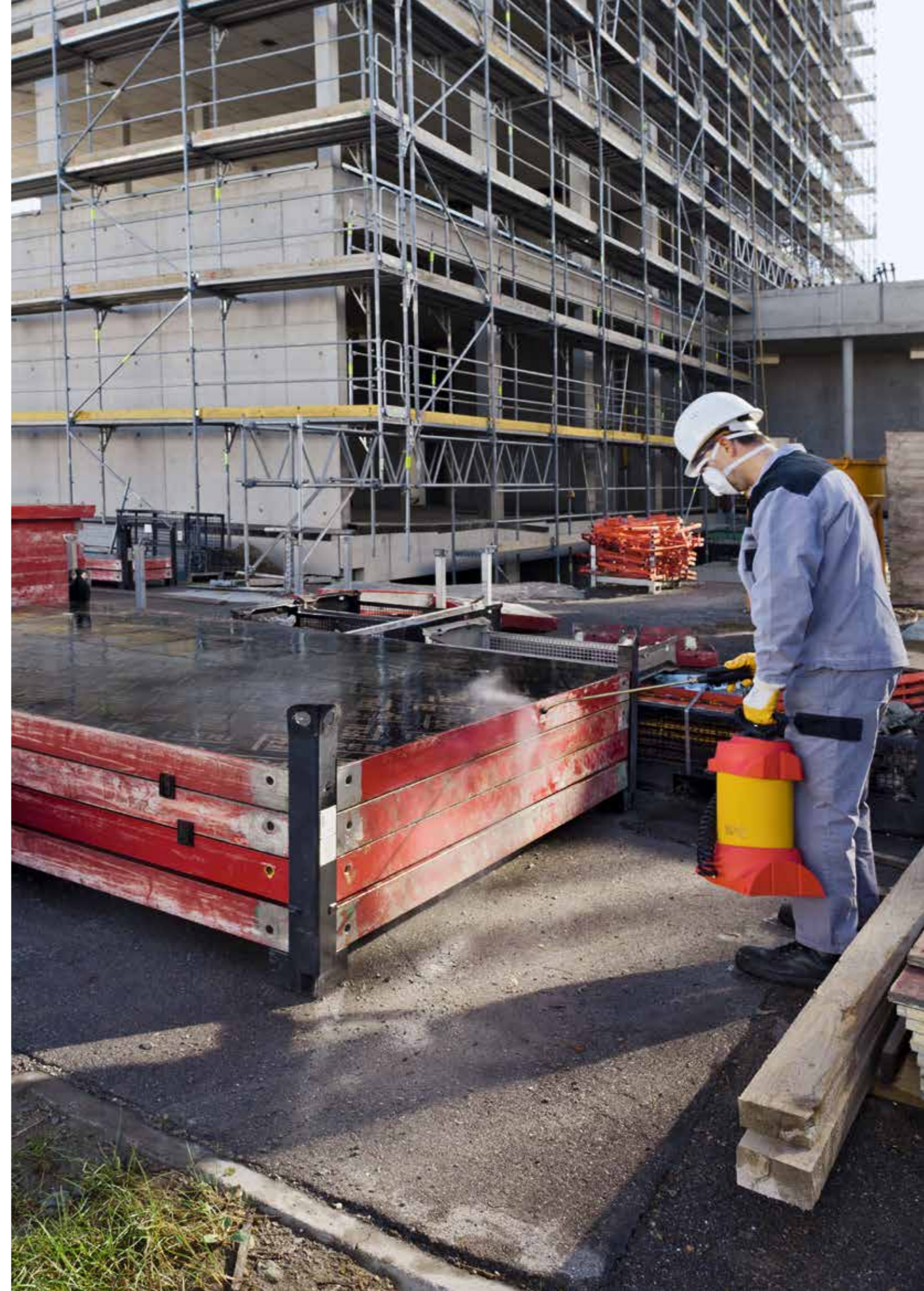
The optimum pressure of 4–5 bar in the tank is generated by pumps and is thereby ensuring a spotless spray pattern.

In the industrial production of building elements in precast plants, in addition to the portable sprayers already mentioned, stationary spraying units are also used. The working pressure is significantly higher here. There nozzles with smaller diameters are used, which ensure a lower, even application.

In addition, care must be taken to work cleanly, as dirt particles can get into the release agent layer when the formwork is assembled. These in turn cause stains or discoloration on the concrete surface.

Product examples:

- + Divinol B Classic
- + Divinol SYN BE Plus
- + Divinol Surface Premium KS
- + Divinol High Liquid Surface





Asphalt release agents

Whether in asphalt mixing plants or in road construction – asphalt release agents from Zeller+Gmelin guarantee reliable protection and a long service life of your machines.

High temperature loads during the paving and transportation of asphalt and strong mechanical influences require high-quality lubricants that are a reliable alternative to the release agents banned by law, such as diesel.

Diesel attacks surface of the asphalt pavement and makes it soft. It also pollutes environment and endangers health of workers. Zeller+Gmelin offers you resource-saving and biodegradable alternatives that can be used time and cost effectively and have a high performance potential.

Our products have been developed and optimised in cooperation with our customers to meet their high technical requirements. At same time our release agents are constantly being adapted to the current requirements in health and safety.

Zeller+Gmelin offers you emulsions (ready to use or as concentrate), release agents based on mineral oil or renewable raw materials.

Cleaners, greases, transmission and hydraulic oils as well as engine oils for commercial vehicles round off the range. Talk to us, the specialists in the field of asphalt and concrete release agents.

Product examples:

- + Divinol Asphalt Premium PK
- + Divinol Asphalt Pur MF
- + Divinol Asphaltlöser MF
- + Divinol HVI Plus ISO 46
- + Divinol Multimax Plus 10W-40
- + Divinol Fluid TO-SAE 30
- + Divinol Fett Top 2003
- + Divinol Profilube MP



Asphalt release agents

Release agents for asphalt mixing plants

Divinol asphalt release agents are used in asphalt mixing plants for charging conveyors and chutes when loading trucks. Trucks with tipper bodies are used to transport hot asphalt mix. For this purpose, asphalt release agent is applied on loading areas of lorries with a high-pressure sprayer. A uniform pressure of 4–6 bar must be ensured.

Release agents for road construction

The asphalt is unloaded on the construction site from the tipper vehicle onto the receiving hopper of the feeder.

Via a heatable conveyor belt with chain drive, the mix is passed on to material hopper of road finisher.

There, asphalt is spread evenly over entire paving width by means of a paving screed.

Road rollers with pneumatic tyres or steel rollers compact applied asphalt depending on the type of asphalt mix, paving thickness, temperature, etc.

Product examples:

- + Divinol Asphalt Aqua PK
- + Divinol Gussasphalt SK
- + Divinol Asphalt Aqua MK



Construction

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Products for the business unit Construction

Product selection Concrete release agents

Product	Item no.	Description
Divinol B Classic	08920	Allround product for construction site, also usable as mixer protection
Divinol SYN BE Plus	31860	Environmental friendly product rewarded with Blue Angel and EU Ecolabel.
Divinol Plast High Liquid	20650	Special product for plastic facing formworks for high-quality structure concrete
Divinol High Liquid Plus	20890	Readily biodegradable product according to OECD 301 B for high-quality surfaces
Divinol High Liquid Surface	22230	Release agent for highest demands on concrete surfaces
Divinol Tube KS	27820	Special product for tunnel construction and for vertical frame-works
Divinol Surface Premium KS	22560	Product for high-quality surfaces in precast factory for steel formworks
Divinol Surface Premium HFP	20840	Release agent with higher flashpoint for precast plants
Divinol Aqua EM	25170	Ready to use emulsion for precast factory with high corrosion protection
Divinol Aqua EP	32760	Ready to use emulsion based on renewable raw materials
Divinol Rapid	92380	Release agent for immediate demolding for production of concrete blocks in precast factory
Divinol Schalwachs HFP	04410	Sprayable wax for pretreatment of wooden formworks

Product selection Mixer protection

Product	Item no.	Description
Divinol Mischerschutz DW	30080	Effective mixer protection for wet surfaces for construction vehicles
Divinol Mischerschutz Spezial	91560	Universal mixer protection with corrosion protection proven in concrete plants

Product selection Asphalt release agents

Product	Item no.	Description
Divinol Asphalt Pur MF	31970	Ready to use universal release agent based on mineral oil
Divinol Asphalt Aqua PK	09480	Emulsion concentrate based on renewable material for rollers in road construction
Divinol Asphalt Aqua MK	94270	Emulsion concentrate based on mineral oil for rollers in road construction
Divinol Asphalt Premium PK	32400	Concentrate building a stable emulsion for for rollers in road construction
Divinol Gussasphalt SK	12040	Watermiscible concentrate based on soaps for wooden buckets for production of melted asphalt

Product selection Hydraulic oils

Product	Item no.	Description
Divinol HE 32 / HE 46	32150/48800	Readily biodegradable hydraulic oil based on esters in viscosity of 32 with EU Ecolabel and in a viscosity of 46
Divinol HLP ISO 32/46/68	48861/48870/48880	HLP-alloyed high performance hydraulic oil according to DIN 51524 part 2 in different viscosities
Divinol HVI ISO 15/32/46	48830/48840/48820	High pressure hydraulic oil with multigrade character HVLP-alloyed according to DIN 51524 part 3 in different viscosities
Divinol HLPD ISO 46	28640	Viscosity optimised, detergating/dispersgating hydraulic oil HVLPD alloyed according to DIN 51524 part 3, viscosity 46
Divinol HVI Plus ISO 46	48370	Viscosity and temperature optimized high performance hydraulic oil according to DIN 51524 part 3, viscosity 46

Products for the business unit Construction

Product selection Engine and transmission oils

Product	Item no.	Description
Divinol Multimax Advanced 5W-30	49360	Low Ash oil for commercial vehicle of latest generation SAE 5W-30 for reducing range of products
Divinol Multimax Plus 10W-40	49750	High-quality Low Ash oil for commercial vehicles SAE 10W-40
Divinol Multimax High Tech 15W-40	49790	High-quality Low Ash oil for commercial vehicles Euro V and VI SAE 15W-40
Divinol Multimax Top 15W-40	49720	High-quality Low Ash oil for commercial vehicles / vehicle fleets SAE 15W-40
Divinol Synthogear SL 75W-90	52070	Fully synthetic premium high-quality gear oil (PAO) GL 4/5 SAE class 75W 90
Divinol Mehrzweckgetriebeöl SAE 85W-90	80714	Mineral oil based gear box oil GL 4 SAE class 90/85W-90
Divinol Synthogear INT.75W-80	52020	High-quality gear box oil GL 4 based on HC synthetic SAE class 75W-80
Divinol Getriebeöl DB 85W-90	80763	Mineral oil based axle drives oil GL 5 SAE class 90/85W-90
Divinol Getriebeöl LS 85W-90	80783	Mineral oil based hypoid gear oil with LS addition SAE class 90/85W-90
Divinol Getriebeöl ST 80W-90	52030	High performance gear oil based on mineral oil GL 4/5 SAE class 80W-90
Divinol Fluid TO-SAE 30	49000	Gear hydraulic fluid TO 4
Divinol Fluid TO-SAE 10W	48970	Gear hydraulic fluid TO 4

Product selection Greases

Product	Item no.	Description
Divinol Mehrzweckfett 2	22971	Universal lubricating grease based on lithium for rolling and plain bearings
Divinol Fett Top 2003	23980	Water repellent long-term lubricating grease based on calcium
Divinol Fett Garant 2000 EP Plus	85431	EP-alloyed lubricating grease based on lithium for rolling and plain bearings
Divinol Lithogrease 2 B	21711	High temperature long-term lubricating grease based on lithium for hubs in commercial vehicles and for rolling and plain bearings
Divinol Konservierungswachs	2321DKW	Wax for preservation storage of agriculture equipment, gritting vehicles...

Product selection Cleaners

Product	Item no.	Description
Divinol Betonlöser	12480	Effective cleaner for removing of concrete residues
Divinol Asphaltlöser MF	27530	High quality cleaner for removing of asphalt residues of tools and machines
Divinol Gerätereiniger Forte	12300	Environmentally friendly cleaner according to OECD 301 B

Product selection Adhesive and maintenance sprays

Product	Item no.	Description
Divinol Profi Lube MP	22540LK	High performance care and maintenance spray for multi-functional use
Divinol Profi Lube HHS	23360LK	High solid containing teflon adhesive spray for chains, gear wheels, hinges, bolts
Divinol Profi Lube SL	62301LK	Synthetic adhesive spray for chains, gear wheels, rolls, bowden cables...
Divinol Profi Lube KWS	33210LK	High-quality, wax containing corrosion protection agent for preserving of all kind of equipments

At home + Abroad

We are your plus.

Zeller+Gmelin has got offices worldwide, plus its head office in Eislingen in Baden-Württemberg. Our name stands for reliability and quality, at all times. Our subsidiaries and partners with all their employees ensure this on a worldwide basis.

The distinct expertise of our sites and our smooth cooperation are beneficial not just to us, the company as a whole – but also to you, the customer.

The concentrated competence and understanding of processes, application and development, coupled with problem-solving skills and personal advice, are what make Zeller+Gmelin a global figure when it comes to understanding and solving your problems.



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SÜDÖL GmbH
SÜDÖL Recycling GmbH



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