



PRODUCTS FOR  
GOOD-LOOKING  
CONCRETE







## HEBAU PRODUCTS

have special functions that use concrete technology to enhance and protect concrete surfaces e.g., by creating special aesthetical, functional and tactile surface characteristics.



### **MICROGEL®**

for the production of acid-etched concrete surfaces



from page 24



### **Integral Colour Pigments**



from page 46



### **CSE® Deactivators**

for the production of exposed aggregate concrete surfaces with many exposure depth options



from page 10



### **Retarder Paper**

for exposed aggregate concrete surfaces, various exposure depths, cut to size or in rolls



from page 20

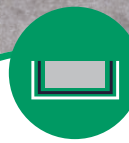


### **PowerGrit**

for the production of sandblasted surfaces



from page 32



### **High Performance Mould Release Agents:**

(free of solvents)

#### **WABICON HP**

for the production of smooth, form-finished concrete

#### **WETCAST-FormFluid HP**

a special release agent for plastic and rubber moulds



from page 48



### **Moulds**

for repetitive production



from page 54



### **Value Adding Additives:**

#### **HYDROMIX®-Fluid 50**

reduces efflorescence

#### **ARCON-Fluid<sup>plus</sup>**

with the latest plasticizer technology

#### **TECHNOFIBER**

fibre to avoid shrinkage and cracks



from page 50



### **Protective Coatings for Concrete:**

#### **COLORFRESH® intensiv**

Protective coating with silky sheen; enhances colours

#### **COLORFRESH® effect**

Protective coating with wet-look effect

#### **COLORTEC® MAX**

Invisible protective coating; matt finish

#### **COLORTEC® finish**

Invisible protective coating for smooth form-finished surfaces

#### **PROWALL II**

Anti-graffiti coating and stain blocker



from page 34



### **Tools and Accessories**

Sprayers  
Diamond Polishing Pads  
Alkali-Resistance Glassfibre Cleaners  
...

from page 56





Marcus Herrfeld, Managing Director and Owner

## ABOUT US

We are passionate about good-looking concrete. Our products refine and protect it. "Good-looking concrete" as the final result of materials, procedures, experience and expertise, is therefore the focus of our work. To this end we are happy to "get our hands dirty".

Founded in 1968, Hebau has gathered a lot of experience and know-how over the last 50 plus years. Therefore, we're happy to advise our customers as often as required, online and in person on site, whether around the corner or "overseas".

When owner Marcus Herrfeld, Director since 1996, is asked about the size of **HEBAU** he replies "You may still call us a small family business – no problem."

### Our Strengths



#### Specialised

Our products have a key function for our customers.



#### Expert Consulting

We really know our stuff, have done for over 50 years.



#### Friendly Customer Service

We are fast, reliable and always happy to help.



#### Functionality

Our products are reliable and user-friendly even when the surrounding variables are challenging.



#### Top Grade

Great value for money. Quality first, second and third!

### Network – Sustainable – Social

We are an active member of associations and forums to deepen and share our expertise. We are committed to sustainable concrete in general.

We have a good heart, we donate to charitable organisations, believe in reliability, fairness, loyalty, respect, hospitality...

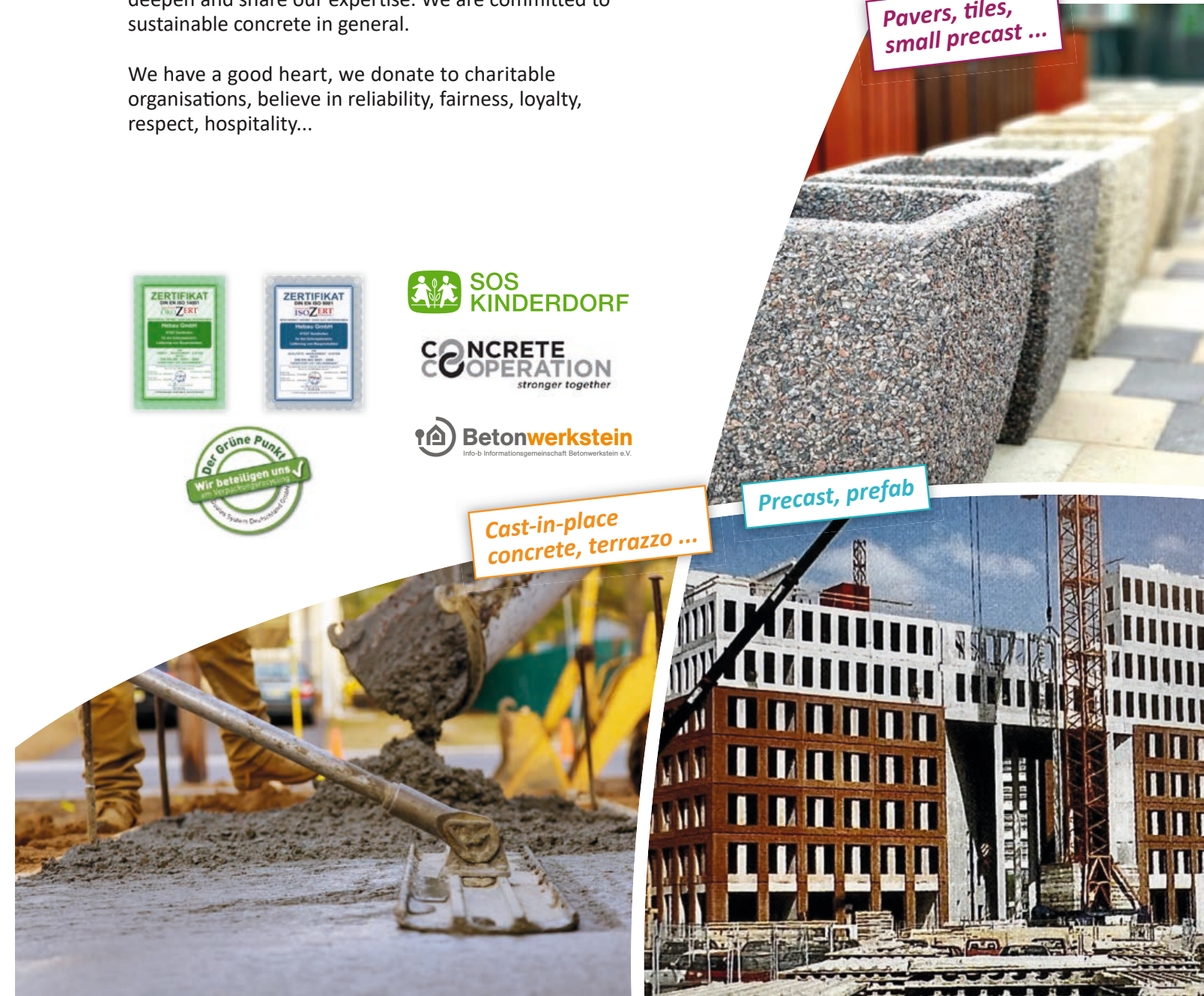


What our products are used for:

Pavers, tiles, small precast ...

Precast, prefab

Cast-in-place concrete, terrazzo ...



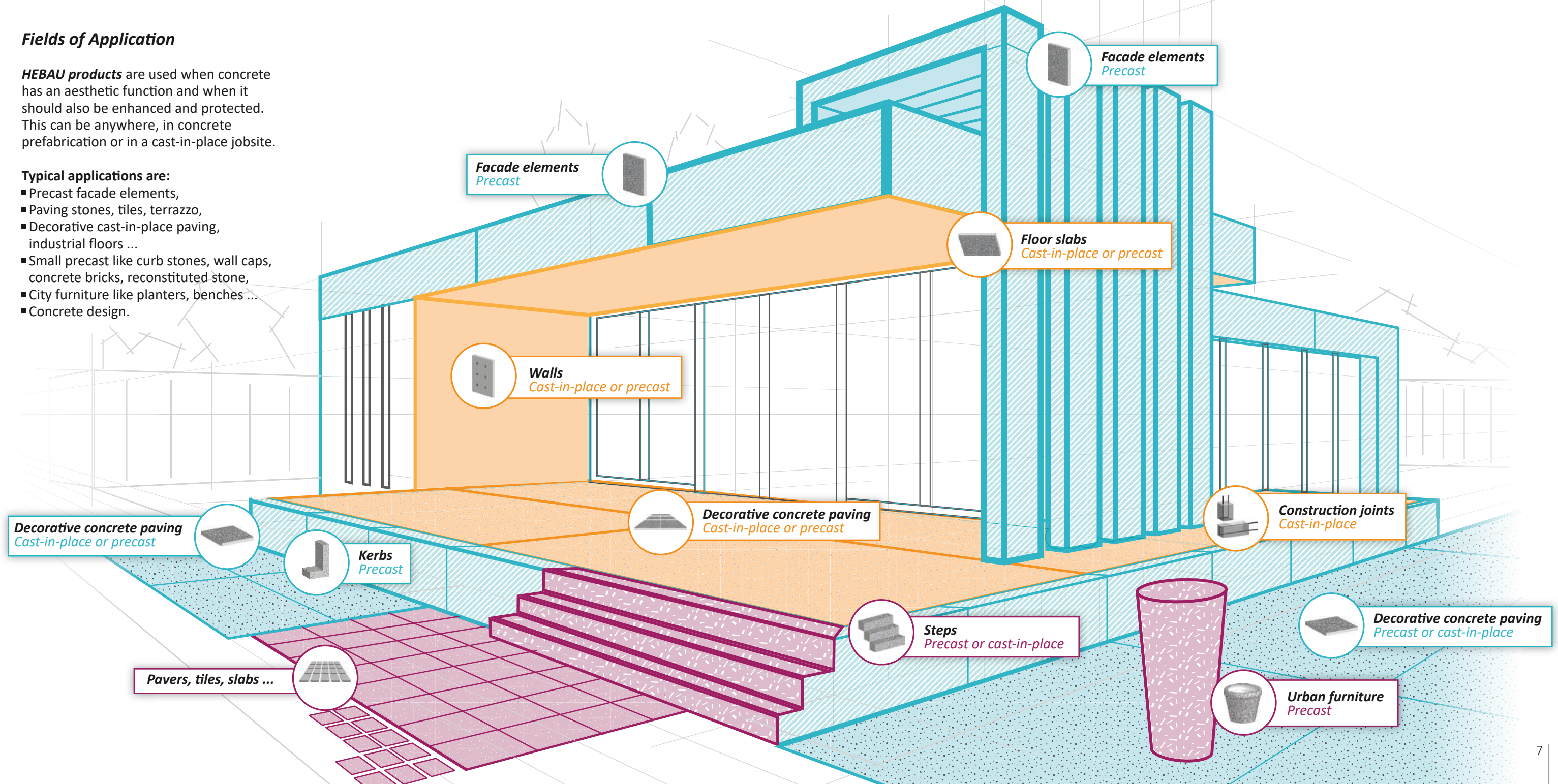


## Fields of Application

**HEBAU products** are used when concrete has an aesthetic function and when it should also be enhanced and protected. This can be anywhere, in concrete prefabrication or in a cast-in-place jobsite.

### Typical applications are:

- Precast facade elements,
- Paving stones, tiles, terrazzo,
- Decorative cast-in-place paving, industrial floors ...
- Small precast like curb stones, wall caps, concrete bricks, reconstituted stone,
- City furniture like planters, benches ...
- Concrete design.





Mix concrete

with

TECHNOFIBER

Microfibres against shrinkage cracks

HYDROMIX-FLUID 50

Reduces efflorescence

Arcon-Fluid<sup>PLUS</sup>

Plasticizer for self-compacting concrete

and

ICPs

Integral Colouring Pigments

► Cast concrete

WABICON HP

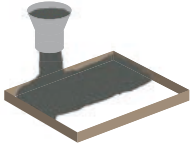
or

WETCAST-FormFluid HP

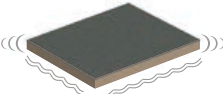
according to application field ➤ Page 48/49



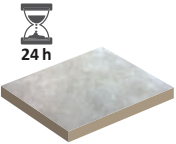
| Spray on mould.



| Cast concrete into the mould.



| Vibrate and trowel.



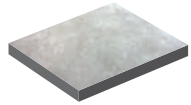
| Allow concrete to dry.



| Demould.

► Enhance concrete

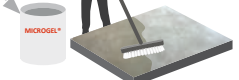
| Allow to dry.



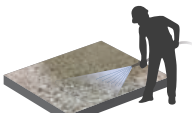
Done: smooth form-finished Concrete surface.

or

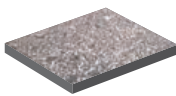
MICROGEL®



| Apply MICROGEL®.



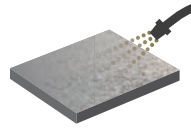
| Wash off, repeat (optional).



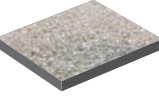
Done: acid-etched concrete surface.

or

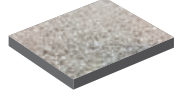
PowerGrit



| Sandblast with PowerGrit.



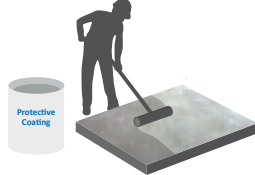
| Clean.



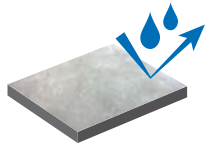
Done: sandblasted concrete surface.

► Protect

► Done



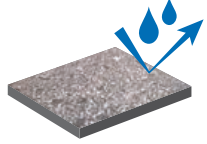
| Apply protective coating.



Protected concrete surface



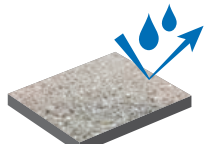
| Apply protective coating.



Protected acid-etched concrete surface



| Apply protective coating.

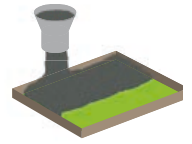


Protected sandblasted concrete surface

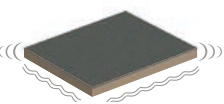
CSE® Deactivator Negative Application



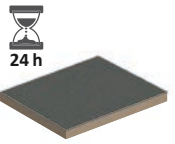
| Apply CSE® Deactivator.



| Cast concrete into the mould.



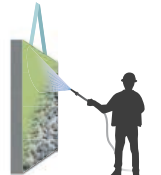
| Vibrate and trowel.



| Allow concrete to dry.



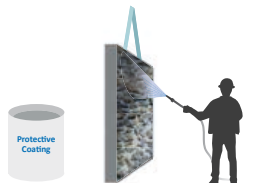
| Demould.



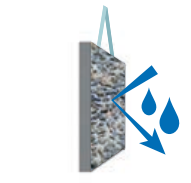
| Clean surface with water.



Done: exposed aggregate concrete surface.

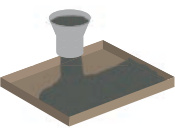


| Apply protective coating.



Protected exposed aggregate concrete surface

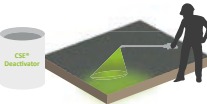
CSE® Deactivator Positive Application



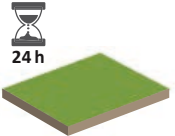
| Cast concrete into the mould.



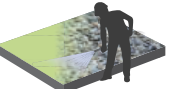
| Trowel.



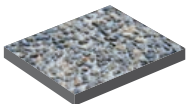
| Spray concrete on surface.



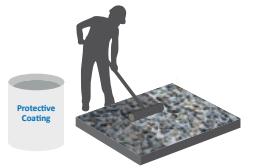
| Allow concrete to dry.



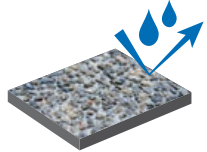
| Clean surface with water.



Done: exposed aggregate concrete surface.



| Apply protective coating.



Protected exposed aggregate concrete surface



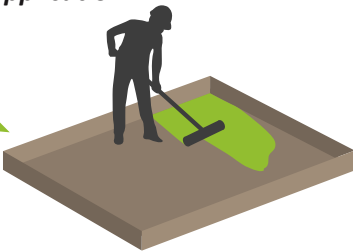
# PRODUCTS FOR THE PRODUCTION OF EXPOSED AGGREGATE CONCRETE



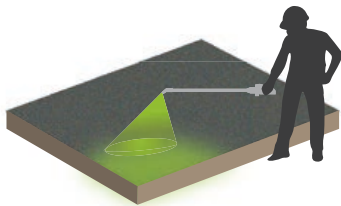
CSE® Deactivator

For the production of exposed aggregate concrete **CSE® Deactivator** can be used in two different ways.

When the deactivator is applied to the mould surface, before the concrete is cast, it is referred to as **‘negative’ application**.



A **‘positive’ application** is when the **CSE® Deactivator** is sprayed on the freshly poured concrete surface.



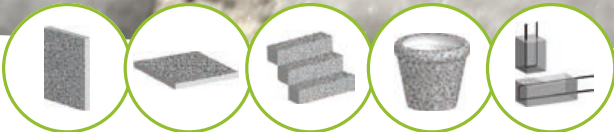
➤ See page 12 for a step-by-step guide of both application methods



After washing off the surface the result is a robust, aesthetically sophisticated, natural stone-like look with an anti-slip effect.

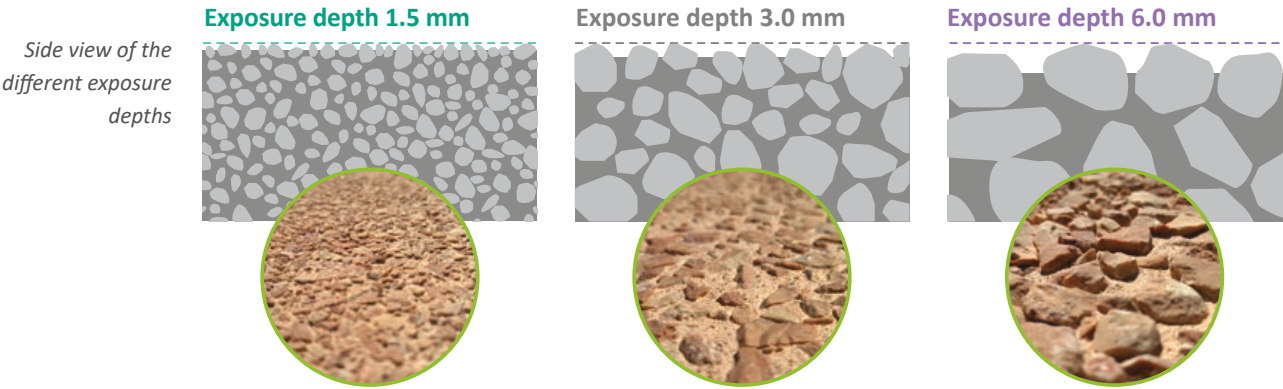


Application areas



Available in 11 different exposure depths:

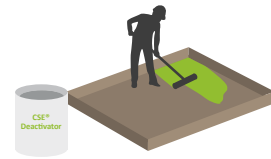
CSE® Exposure depth type	mino	01	02	10	25	50	70	130	200	300	400
Size of aggregates (in mm)	0 - 4/8	0 - 4/8	2 - 8	2 - 8	4 - 8	6 - 8/12	8 - 16	8 - 16/22	12 - 16/32	16 - 32	16-32/54
Exposure depth (in mm approx.)	0.3	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	7.0
Colour code	blue	blue	brown	green	yellow	pink	grey	white	orange	violet	violet



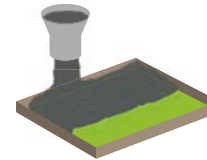


## NEGATIVE APPLICATION

Standard



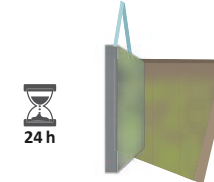
1. Apply **CSE® Deactivator** to mould and allow to dry.



2. Pour concrete into the mould.



3. Vibrate / trowel and allow to dry.



4. Demould.



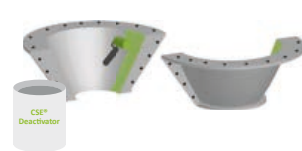
5. Clean surface with water. Done.



Example

## NEGATIVE APPLICATION

Variant



1. Apply **CSE® Deactivator** to inner side of mould and allow to dry.



2. Assemble all mould parts.



3. Cast concrete into the mould.



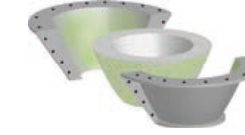
4. Vibrate concrete and allow concrete to set.



5. First remove screws of upper part to start demoulding.



6. Remove core (if necessary with the help of compressed air).



7. Take away side parts and clean the mould surface.



8. Wash off surface. Done.



Example

## POSITIVE APPLICATION

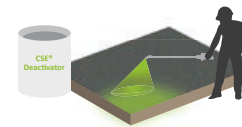
Standard



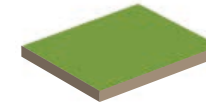
1. Cast concrete into the mould or section.



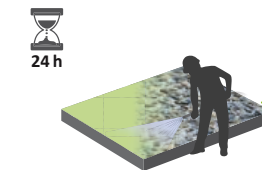
2. Trowel.



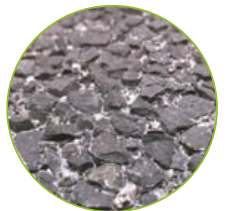
3. Spray **CSE® Deactivator** onto surface.



4. Allow concrete to dry.



5. Clean surface with water. Done.



Example

## POSITIVE APPLICATION

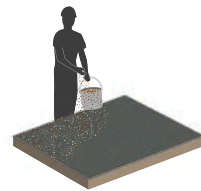
Variant



1. Cast concrete into the mould or section.



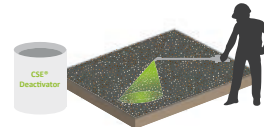
2. Trowel.



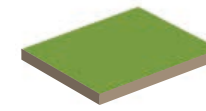
3. Seed in aggregates.



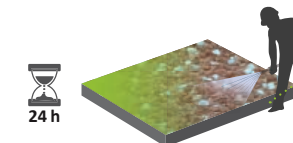
4. Trowel again.



5. Spray **CSE® Deactivator** onto surface.



6. Allow concrete to dry.



7. Clean surface with water. Done.



Example



Mix designs for exposed aggregate concrete



[You can find more](#)  
[Mix designs on our](#)  
[download page](#)

Mix design “Blue”:

micro exposed with CSE® Deactivator, type 02

0-1 mm Bahia Blue	510 kg/m <sup>3</sup>
3-5 mm Bahia Blue	515 kg/m <sup>3</sup>
3-5 mm Bahia Blue	713 kg/m <sup>3</sup>
Cement White 42,5	330 kg/m <sup>3</sup>
ICP HE730 blau 3%	9,9 Kg/m <sup>3</sup>
Arcon-Fluid <sup>+Plus</sup>	0,3% 1 l/m <sup>3</sup>
Water	152 l/m <sup>3</sup>
total weight of fresh concrete	2230,9 kg/m <sup>3</sup>



Mix design “Black”:

deep exposure with CSE® Deactivator 130,  
alternatively HEBAU Retarder Paper “green”

0-3 mm Basalt black	450 kg/m <sup>3</sup>
8-16 mm Basalt black	1440 kg/m <sup>3</sup>
Cement 42,5 R	350 kg/m <sup>3</sup>
Arcon-Fluid <sup>+Plus</sup> 0,3%	1 l
Water	160 l/m <sup>3</sup>
total weight of fresh concrete	2401 kg/m <sup>3</sup>



Mix design “Rosso”:

Very deep exposure with CSE® Deactivator 300,  
alternatively HEBAU Retarder Paper “red”

0-1 mm Rosso Verona	521 kg/m <sup>3</sup>
12-16 mm Rosso Verona	1304 kg/m <sup>3</sup>
Cement White 42,5	330 kg/m <sup>3</sup>
Arcon-Fluid <sup>+Plus</sup> 0,3%	1 l
Water	152 l/m <sup>3</sup>
total weight of fresh concrete	2308 kg/m <sup>3</sup>

CSE® Deactivator Product Overview

Suitable for the following concrete surfaces:

	CSE® Deactivator Version “pro”	CSE® Deactivator Version “nova”	CSE® Deactivator Version “solotop”	CSE® Deactivator Version “multitop”
micro exposure depth (sand finish)	✓	✓	✓	✓
light, medium and deep exposure depths	✓	✓	✓	✓
aesthetical / architectural surface	✓	✓	✓	✓
anti-slip surface	✓	✓	✓	✓
high adhesion surface	✓	✓	✓	✓

Suitable for the following applications:

horizontal face down poured precast	✓	✓	-	-
vertical mould poured precast	✓	✓	-	-
vertical mould cast-in-place	✓	○	-	-
horizontal face-up poured	✓	✓	✓✓	✓✓
zero-slump pressed concrete	✓	✓	✓✓	✓✓
also suitable for HPC, UHPC, SCC, GFRC ...	✓	✓	✓	✓
structural concrete engineering to obtain construction joints with „rough“ surface texture	✓	✓	○	○
protecting the front surface of bricks when making brick-embedded precast facades	-	✓	-	-

Also recommended:

PCE-based superplasticiser, designed for architectural / decorative concrete	ARCON-Fluid <sup>+Plus</sup>	Avoids segregations and helps to reduce vibration towards semi-selfcompacting or self-levelling concrete.
Integral colour pigments	ICPs	Available as powder, slurry or granulated pigments.
Protective coating – option I	COLORFRESH® intensiv	Applicable early after wash-out procedure – enhances surface colour and creates a silky sheen.
Protective coating – option II	COLORFRESH® effect	Applicable early after wash-out procedure – creates a wet-look finish.
Protective coating – option III	COLORTEC® MAX	Applicable early after wash-out procedure – remains invisible/matt finish.

Symbol explanation:

✓✓ very applicable/suitable    ✓ applicable/suitable    ○ partially applicable/suitable    - not applicable/suitable  
Please study our technical data sheets. Please note, it is always necessary to carry out pilot tests which realistically correspond to the planned production process and application procedure.

Status 10/2022, All information is subject to changes.



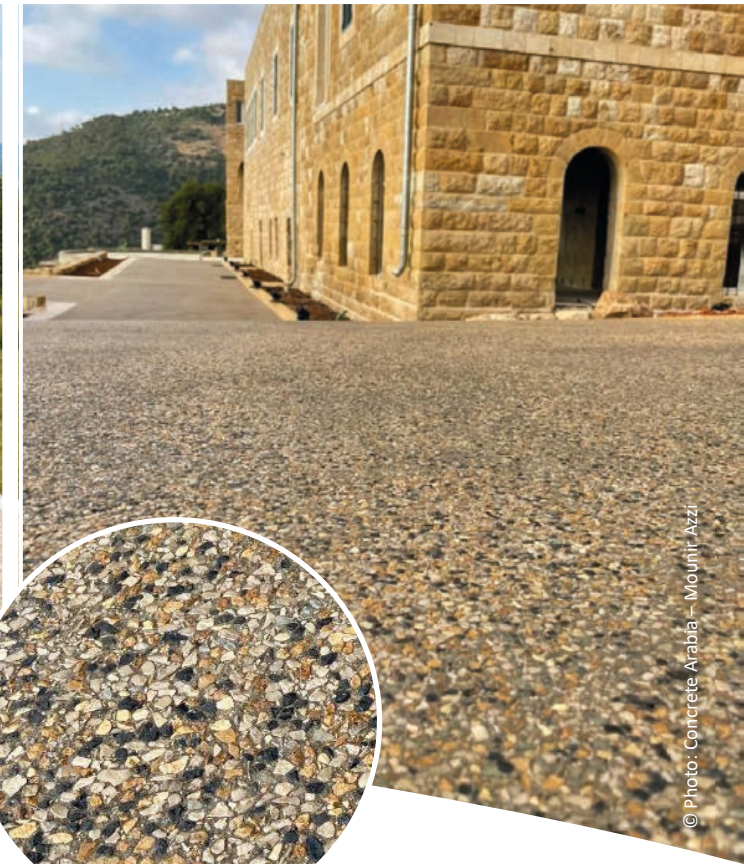


## EXAMPLES

CSE® DEACTIVATOR



© Photo: Stanecker Betonfertigteilewerk GmbH



© Photo: Concrete Arabia – Mounir Azzi

These exposed aggregate concrete surfaces were produced with **CSE® Deactivator**.



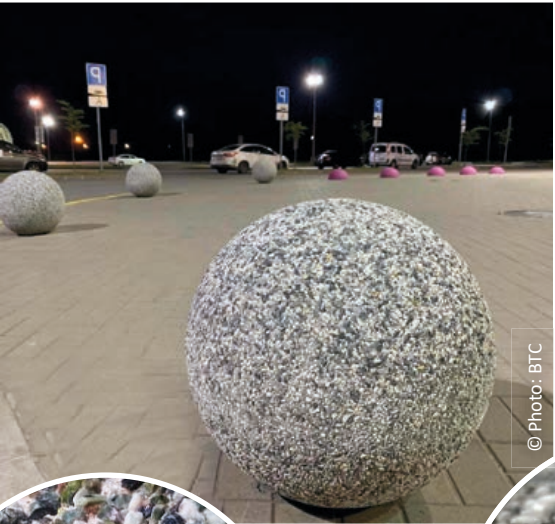
**Tip:** Our customers often protect their exposed aggregate surfaces directly with one of our **COLORFRESH®/COLORTEC®** coatings. If you have any queries, we're more than happy to advise you on this.



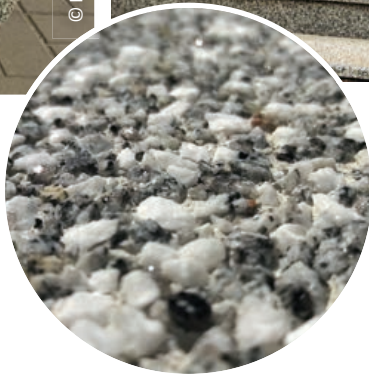


## EXAMPLES

CSE® DEACTIVATOR



© Photo: BTC



These exposed aggregate concrete surfaces were produced with **CSE® Deactivator**.

**Tip:** **CSE® Deactivators** are suitable for many ways of applications.

➤ *Instructions on page 12*

## HOW IT WORKS

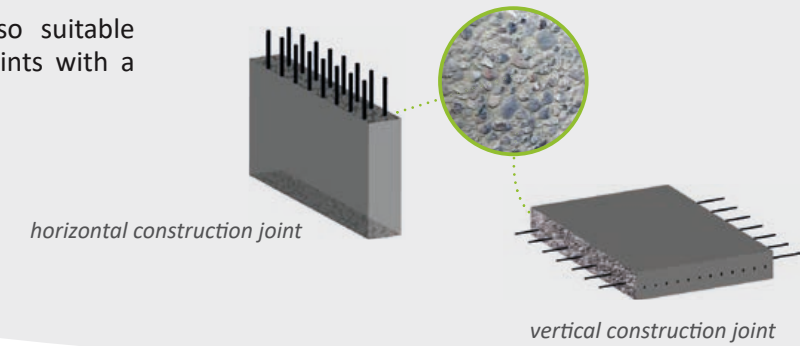
*Detailed information can be found in the leaflet on our download page*

## SPECIAL APPLICATION

### CONSTRUCTION JOINTS



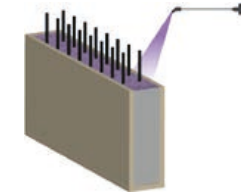
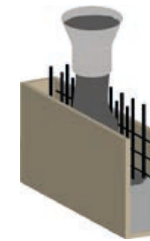
**CSE® Deactivators** are also suitable for making construction joints with a rough surface.



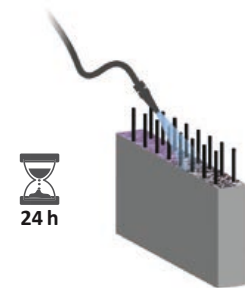
horizontal construction joint

vertical construction joint

### Horizontal construction joint:



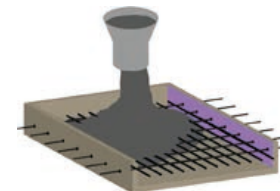
1. The freshly poured concrete construction joint surface is sprayed with **CSE® Deactivator**.



24 h

2. The surface is washed off with a pressure water jet. Done.

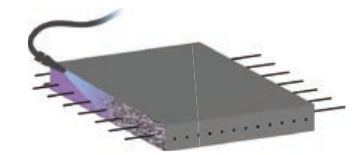
### Vertical construction joint:



1. The **CSE® Deactivator** is applied onto the mould surface and is given time to dry. Then the concrete is cast as usual.



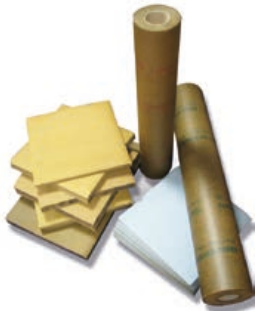
24 h



2. Right after demoulding: The surface is washed off with a pressure water jet. Done.



RETARDER PAPER



Retarder Paper

Exposed aggregate surfaces can also be created with *retarder paper* by simply placing it in the mould.

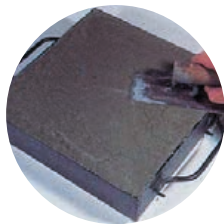
**Available sizes:**  
Standard sheet sizes: 40 x 20 cm, 40 x 40 cm, 40 x 60 cm, 40 x 80 cm, 50 x 25 cm, 50 x 50 cm, 50 x 75 cm, 100 x 100 cm (250 m<sup>2</sup> per carton)  
Standard roll widths: 100 cm, 120 cm, 150 cm, 160 cm (100 m length per roll)



1. Place retarder paper into mould.



2. Pour the concrete into the mould.



3. Vibrate and trowel.



4. Demould.  
Remove paper.



5. Clean surface with water.

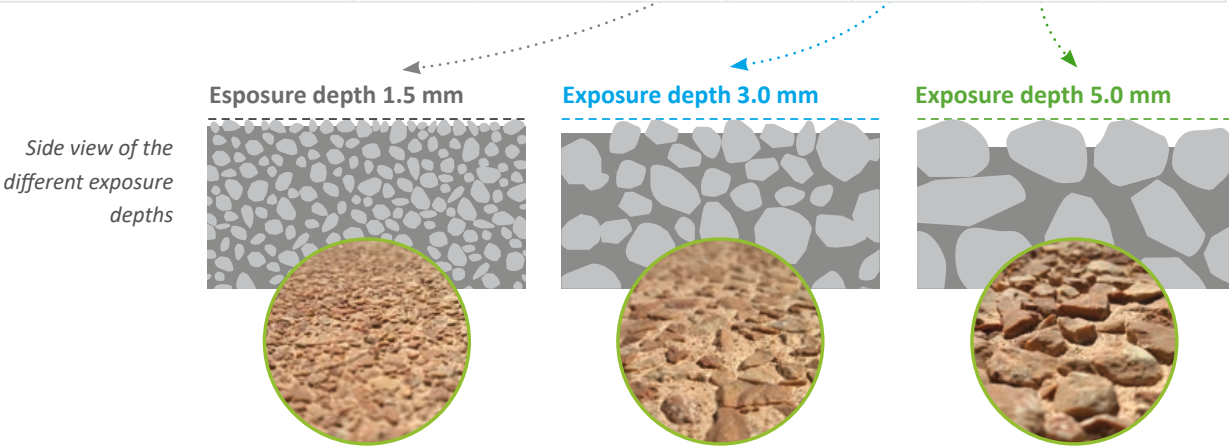


Application areas



Available in 7 different exposure depths:

Exposure depth type:	RSE-01	SE	grey	yellow	blue	green	red
Recommended for aggregate size: (in mm)	0 - 4/8	0 - 4/8	4 - 8	4 - 8	8 - 12	8 - 16	16 - 32
Exposure depth (in mm approx.)	0.5	0.7	1.0 - 2.0	2.0	2.0 - 4.0	3.0 - 5.0	5.0 - 8.0



- Suitable for the following applications:
- Concrete tiles/slabs produced in high repetition with a hydraulic press or similar
  - Precast panels made in horizontal moulds





## EXAMPLES

### RETARDER PAPER



## HOW IT WORKS

### SPECIAL APPLICATION

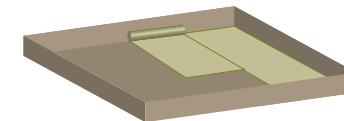
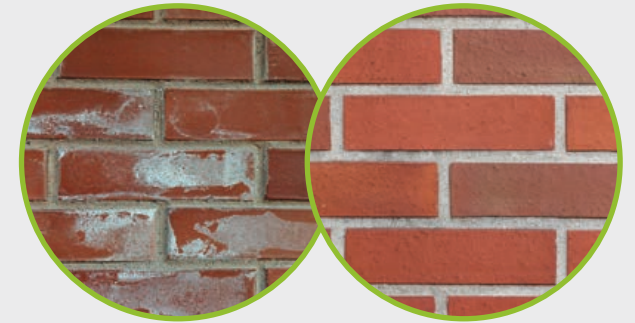
#### BRICK INLAY CONCRETE PANELS

When brick is chosen to be the surface of a precast facade element and concrete is poured over the bricks in the process of making them, it is likely that the brick face gets covered with cement paste which is very difficult to clean off.

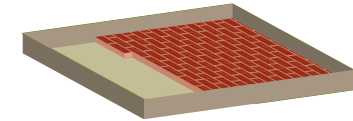
Using retarder paper, which is coated with a surface retarder, stops the cement from setting. Placing it between mould and brick allows the perfect cleaning of the brick face. After demoulding and the removal of the retarder paper any cement paste is easily washed off.

*before*

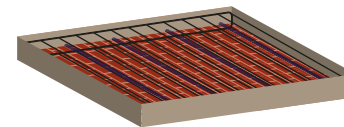
*after*



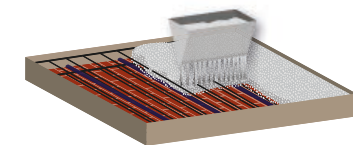
1. Place the retarder paper in the mould.



2. Position the bricks in the mould.



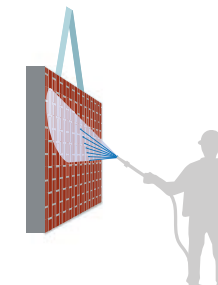
3. Add spacers and rebar.



4. Pour the concrete into the mould. Allow concrete to set.



5. Wash off cementitious residue after demoulding. Done.





# PRODUCTS FOR THE PRODUCTION OF ACID-ETCHED SURFACES

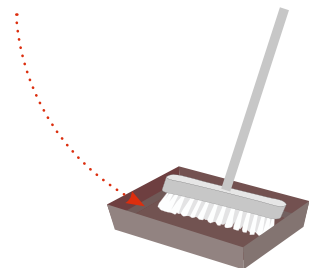


Apply **MICROGEL®** to any smooth form-finished concrete surface to achieve a natural stone-like surface with a special look and robust surface properties. The etch depth of this acidification is approx. 0.3 mm and is therefore much less than the results that can be achieved by sandblasting for instance.

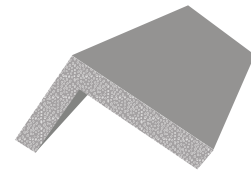


We have 5 **MICROGEL®** versions to meet individual application requirements.

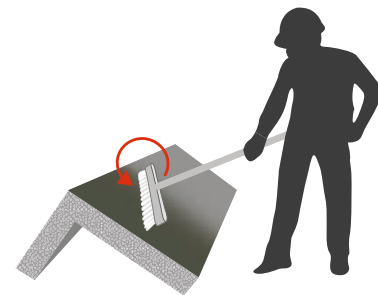
**MICROGEL®**



2. Distribute the material using a brush (the brush should have soft plastic bristles).



1. Saturate the concrete surface well with plenty of water right before starting application. Use **MICROGEL®** on wet concrete surfaces only.

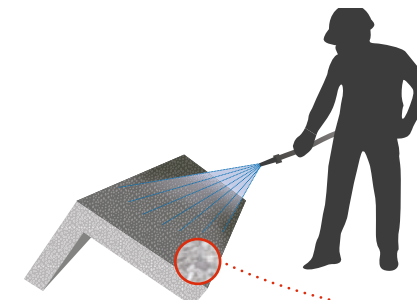
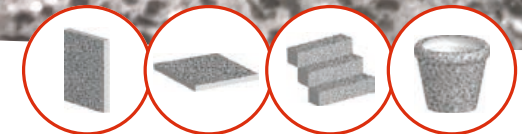


3. Gently rub the **MICROGEL®** on the concrete surface for a few minutes.

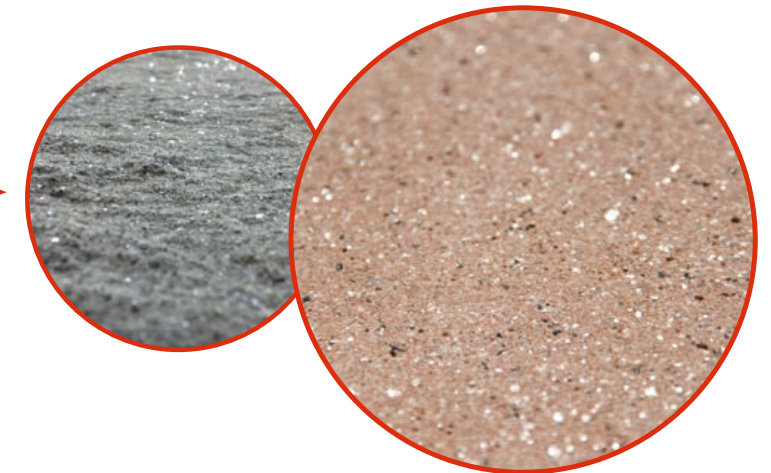
„standard“ concrete surface

same concrete with an acid-etched surface

Application areas



4. Clean the concrete surface with water thoroughly. Repeat the procedure 2-3 times until you have a uniform acid-etched result.



## TIP:

The size of a precast facade element can be much larger than a piece of natural stone, thus offering more design options for facade architecture.

The result is natural stone-like, aesthetically sophisticated look. The concrete surface is homogeneous /uniform, especially in comparison to smooth, form-finished concrete surfaces. Steps and other concrete flooring applications get a non-slip surface.



Mix design for acid-etched concrete surfaces



More Mix designs  
you can find on our  
download page

Mix design example “Blue”:  
acid-etched with MICROGEL®

0-1 mm Bahia Blue	510 kg/m³
3-5 mm Bahia Blue	515 kg/m³
5-7 mm Bahia Blue	713 kg/m³
Cement White 42,5	330 kg/m³
ICP HE730 blau 3%	9,9 Kg/m³
Arcon-Fluid <sup>+Plus</sup> 0,3%	1 l/m³
Water	152 l/m³
total weight of fresh concrete	2230,9 kg/m³



Mix design example “Black”:  
acid-etched with MICROGEL®

0-2 mm Basalt black	790 kg/m³
2-5 mm Basalt black	1.000 kg/m³
Cement 42,5 R	350 kg/m³
Arcon-Fluid <sup>+Plus</sup> 0,3%	1 l
Water	160 l/m³
total weight of fresh concrete	2301 kg/m³



Mix design example “Rosso”:  
acid-etched with MICROGEL®

0-1 mm Rosso Verona	528 kg/m³
1-3 mm Rosso Verona	540 kg/m³
3-6 mm Rosso Verona	720 kg/m³
Cement White 42,5	330 kg/m³
Arcon-Fluid <sup>+Plus</sup> 0,3%	1 l
Water	152 l/m³
total weight of fresh concrete	2271 kg/m³

MICROGEL® Product Overview

Application characteristics	MICROGEL® version “spezial”	MICROGEL® version “forte”	MICROGEL® version “VO2”	MICROGEL® version “connect”	MICROGEL® version “free”
suitable for application by brush	✓	✓	✓	✓	✓
suitable for application by HEBAU sprayers	✓	✓	✓	-	✓
suitable for application on horizontal surfaces	✓	✓	✓	✓	✓
suitable for application on vertical surfaces	✓	✓	✓✓	✓✓	✓
suitable for precast concrete (including GRC, cast stone, self-compacting concrete, HPC ...)	✓	✓	✓	✓	✓
suitable for construction site applications	-	-	-	-	✓

Requirements for best results:

surface must be pre-saturated with water	✓	✓	✓	✓	✓
age of concrete	unlimited	unlimited	unlimited	unlimited	limited
even distribution of aggregates	is always essential for best surface uniformity				

Characteristics of MICROGEL®:

effectiveness	standard	increased	increased	increased	standard
odour	odour-reduced	standard	standard	optimized	free of odour
reaction time	standard	optimized	optimized	optimized	standard
gel-like	✓	✓	✓	✓✓	✓
thixotropic	✓	✓	✓	✓	✓
viscosity	standard	standard	increased	increased	standard

Waste water:

harmless	✓	✓	✓	✓	✓✓
nitrate-free	✓	✓	✓	✓	✓✓

Fields of application:

architectural and decorative concrete	✓	✓	✓	✓	✓
intensive cleaning of concrete	✓	✓	✓	✓	✓✓
slip-resistant (anti-slip) concrete surfaces	✓	✓	✓	✓	✓

Symbol explanation:

✓✓ very applicable/suitable    ✓ applicable/suitable    ○ partially applicable/suitable    - not applicable/suitable  
Please study our technical data sheets prior to application and always conduct pilot tests under real application and production parameters and a suitable observation time. Status 10/2022, All information is subject to changes.

Also recommended:

High performance mould release agent	WABICON HP	Eases first MICROGEL® application, because active ingredients support clean concrete surface upon demoulding (no demoulding oil residue on concrete surface).
Integral colour pigments	ICPs	Available as powder, slurry or granulated pigments
PCE-based superplasticiser, designed for architectural / decorative concrete	ARCON-Fluid <sup>+Plus</sup>	Avoids segregations and helps to reduce vibration towards semi-self-compacting or fully self-levelling concrete.
Protective coating - option I	COLORFRESH® intensiv	Protects against efflorescence, dirt and weathering effects — can be used early after MICROGEL® application - enhances surface colour and creates a silky sheen.
Protective coating - option II	COLORFRESH® effect	Protects against efflorescence, dirt and weathering effects — can be used early after MICROGEL® application - creates a wet-look finish.
Protective coating - option III	COLORTEC® MAX	Protects against efflorescence, dirt and weathering effects — can be used early after MICROGEL® application - remains invisible/matt finish.





## EXAMPLES MICROGEL®



© Photos: Robert Mehl



© Photos: BWE, Wiefelstede

These acid-etched surfaces were produced with **MICROGEL®**.



**Tip:** Our customers often protect their acid-etched surfaces directly with one of our **COLORFRESH®** or **COLORTEC® protective coatings**.  
If you have any queries, we're more than happy to advise you on this.





## EXAMPLES MICROGEL®

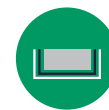


© Photo: Company Dwell the space



© Photos: Robert Mehl

These acid-washed concrete surfaces have been produced with **MICROGEL®**.



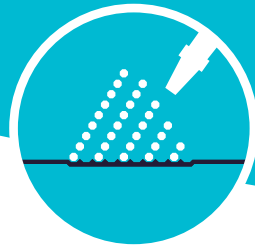
**Tip 1:** **MICROGEL®** is even more efficient when **WABICON HP** mould release agent is used.



**Tip 2:** For a uniform spread of aggregates use **ARCON-Fluid<sup>plus</sup>**.



# PRODUCTS FOR THE PRODUCTION OF SANDBLASTED CONCRETE SURFACES



1. **PowerGrit** sandblasting granules are “shot” onto the concrete surface with suitable equipment. As a result, the near-surface cement stone is removed (also called sandblasting).

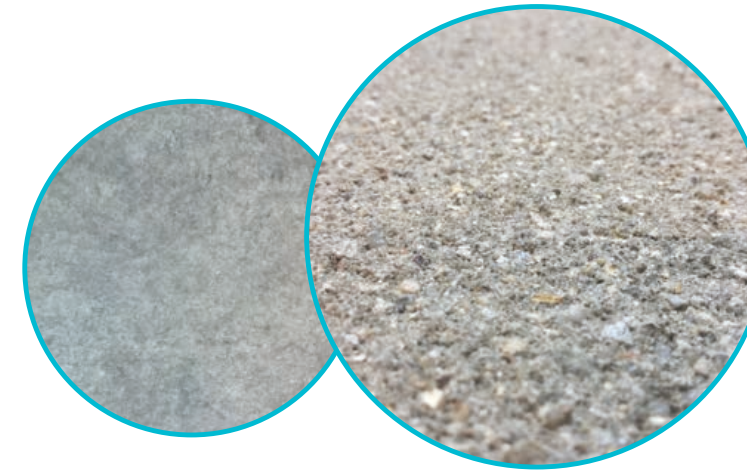
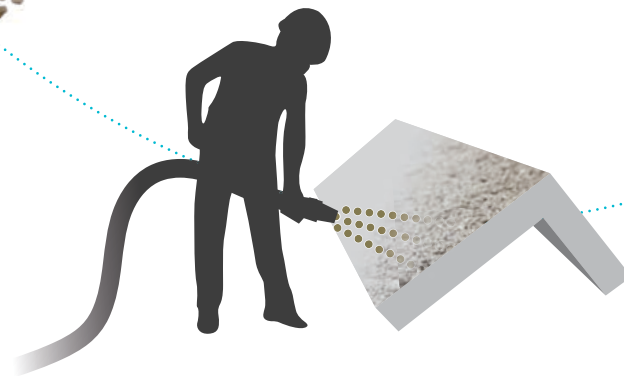
2. The result is a surface with an aesthetically striking effect. Concrete steps and floors are given non-slip properties.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 cm



**PowerGrit**



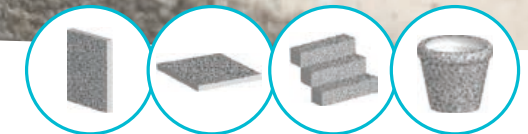
before

after

**PowerGrit** is a silicosis-free abrasive for sandblasting concrete surfaces. Please note, despite the term “sandblasting”, **PowerGrit** is not a conventional sand, rather a secondary raw material.

**PowerGrit** has an ideal material hardness and shape for an efficient, yet gentle abrasion effect, especially for sandblasting concrete surfaces, which are referred to as architectural concrete or concrete block. This surface treatment creates a natural stone-like look and optimises other functions, such as abrasion resistance and slip resistance.

## Application areas



**Tip:** Sandblasted surfaces are very absorbent and therefore also absorb dirt relatively quickly. We therefore recommend protecting with **COLORFRESH®**, **COLORTEC®** or **PROWALL II**.



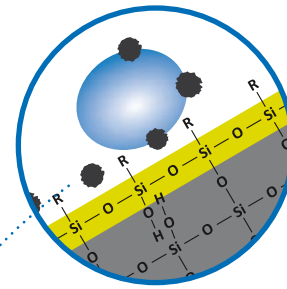
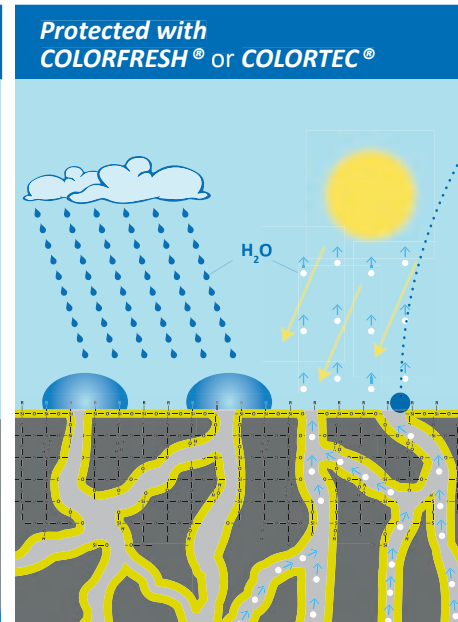
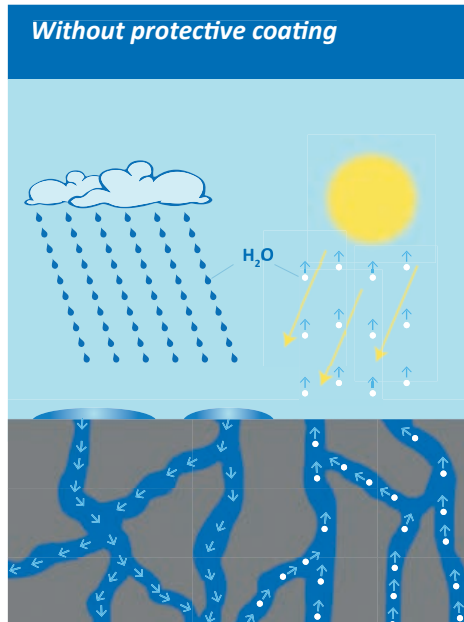
# PROTECTIVE COATINGS FOR CONCRETE



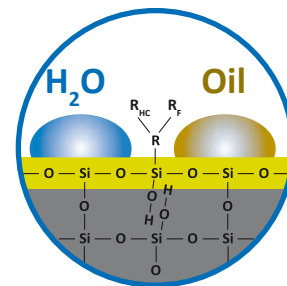
## This is how our protective coatings work

The capillary structure and its absorbency soak up moisture. The surface is hydrophilic. Drying leads to the diffusion of water vapour.

The capillary structure of the surface is protected by a micro-fine mesh. The hydrolysis principle creates a protective shield on the surface which points upwards and also constricts the capillary wall diameter. The surface tension of liquids is now too high to allow them to penetrate the structure. Water vapour diffusion can still take place.



Self-cleaning effect on inclined or vertical surfaces

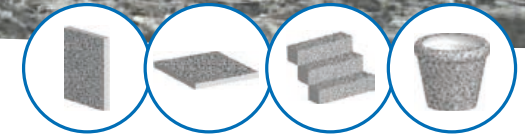


Depending on the composition, our protective coatings are either hydrophobic or hydrophobic and oleophobic

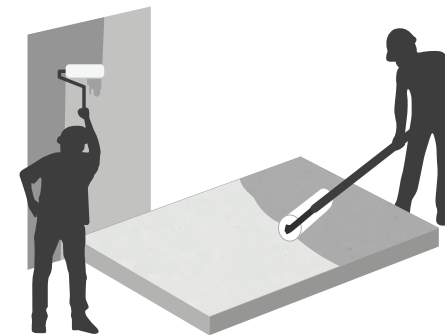
Untreated concrete:  
Water penetrates the surface

Protected with COLORFRESH®:  
Water runs off

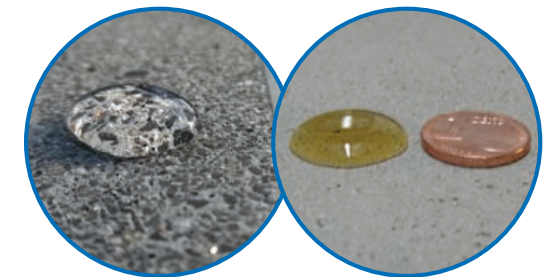
Application areas



COLORTEC® or COLORFRESH®



Our protective coatings can be applied with a brush, roller or a sprayer.



We offer protective coatings which are hydrophobic and/or oleophobic, colour enhancing, matt or with a silky sheen or wet-look effect, suitable for walls and floors, indoors and outdoors ...



## Use our protective coatings for:



Cast-in-place concrete floors and walls - Applied by the contractor at the construction site.



Concrete pavers, tiles, small and heavy precast concrete - Applied on producer's premises before shipping and installation.



Protect against graffiti whenever and wherever necessary – Any time.

➤ Page 40

## COLORFRESH® & COLORTEC® Product Properties

	COLORFRESH® intensiv	COLORFRESH® effect	COLORTEC® MAX	COLORTEC® finish
<b>Areas of Application:</b>				
floors/paving	✓	✓	✓	○
walls/facades	✓	✓	✓	✓
indoors	✓	✓	✓	✓
outdoors	✓	✓	✓	✓

### Suitable for following types of concrete:

prefabricated (precast) elements	✓	✓	✓	✓
ready mixed concrete (cast-in-place)	✓	○	○	✓
self-compacting (self-levelling) concrete	✓	✓	✓	✓
dry-cast concrete (pavers, blocks, bricks, slabs, tiles ...)	✓	✓	✓	○
cast stone	✓	✓	✓	✓
wetcast concrete	✓	✓	○	✓
terrazzo	✓	✓	✓	○
decorative concrete cast-in-place	✓	○	○	○

### Suitable for following types of surfaces:

	COLORFRESH® intensiv	COLORFRESH® effect	COLORTEC® MAX	COLORTEC® finish
smooth form-finish or formliner-structured	✓	○	○	✓
acid-etched	✓✓	✓✓	✓✓	✓
sandblasted / shot-blasted	✓✓	✓✓	✓✓	✓
exposed aggregate	✓✓	✓✓	✓✓	✓
bush-hammered	✓✓	✓✓	✓✓	✓
polished / ground / honed	✓	✓	✓✓	○

### Product characteristics:

<b>matt (invisible) finish</b>	✓	✓	✓	✓
<b>colour-enhancing</b>	✓	✓✓	-	-
<b>creates a silky sheen</b>	✓	-	-	-
<b>water based / solvent free</b>	✓	✓	✓	✓
<b>dirt-repellent</b>	✓✓	✓	✓✓	✓
<b>tested and approved as "safe for contact with food"</b>	✓	not yet testet	✓	not yet testet
<b>water-repellent / hydrophobic</b>	✓	✓	✓	✓
<b>oil-repellent / oleophobic</b>	✓✓	✓	✓✓	-
breathable / permits water vapour diffusion	✓	✓	✓	✓
UV-resistant	✓	✓	✓	✓
applicable on dry surfaces	✓	✓	✓	✓
applicable on moist surfaces	✓	✓	✓	✓

### Protects against:

efflorescence	✓	✓	✓	✓
freeze / thaw damage	✓	✓	✓	✓
stains	✓✓	✓	✓	○
general soiling	✓	✓	✓	✓
growth of moss and algae	✓	✓	✓	✓
weathering, fading of colours	✓	✓	✓	✓
graffiti	-	-	○	-

### Symbol explanation:

✓✓ very applicable/suitable    ✓ applicable/suitable    ○ partially applicable/suitable    - not applicable/suitable  
Please study our technical data sheets prior to application and always conduct pilot tests under real application and production parameters and a suitable observation time. Status 10/2022, All information is subject to changes.



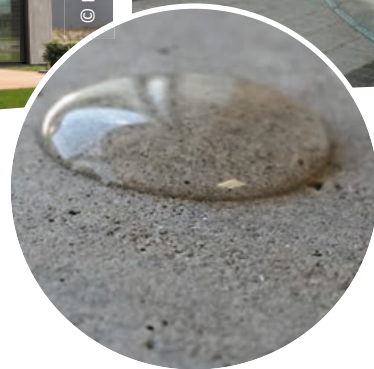


## EXAMPLES

COLORTEC®/ COLORFRESH®



© Photo: Helmut Lentz



© Photo: Werner Huthmacher, Berlin



These concrete surfaces have been treated with one of our **COLORFRESH®** or **COLORTEC®** protective coatings.  
Please contact us for a consultation.





## EXAMPLES

COLORTEC®/ COLORFRESH®



© Photo: Bernd Ducke



These concrete surfaces have been treated with one of our **COLORFRESH®** or **COLORTEC®** protective coatings.  
Please contact us for a consultation.

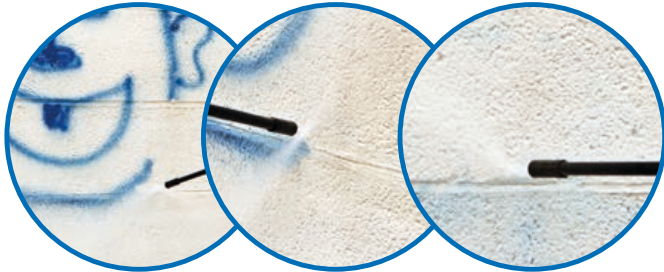


ANTI-GRAFFITI COATING



PROWALL II

Graffiti affect both inner-city buildings, public spaces and rural areas too. The good news is that **PROWALL II**, our anti-graffiti coating, makes those surfaces easy to clean.



1.

Apply **PROWALL II** on any surface. It is user-friendly and does not require any special training.
2.

The surface is covered with a protective film and can be washed off with a water jet (no additional cleaning chemicals required). Depending on the type of cleaning method, it is recommended to reapply **PROWALL II** after removal of the graffiti.



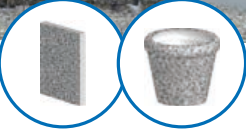
before

Photo: Kundie/Hellmann



after: the graffiti can be washed off easily

Application areas



Product characteristics PROWALL II

	matt (invisible) finish	✓
	colour-enhancing	-
	creates a silky sheen	-
	water based / solvent free	✓
	dirt-repellent	✓✓
	safe for contact with food	✓
	water-repellent / hydrophobic	✓✓
	oil-repellent / oleophobic	✓
	breathable / permits water vapour diffusion	○
	UV-resistant	✓
	applicable on dry surfaces	✓
	applicable on moist surfaces	-

Symbol explanation:

✓✓ very applicable/suitable    ✓ applicable/suitable  
○ partially applicable/suitable    - not applicable/suitable

Please study our technical data sheets prior to application and always conduct pilot tests under real application and production parameters and a suitable observation time. Status 10/2022, All information is subject to changes.

TIP:

**PROWALL II** is also used as a stain blocker for concrete surfaces with high exposure to stains, like countertops for example. For such applications our products have been tested and approved as “safe for food contact”.



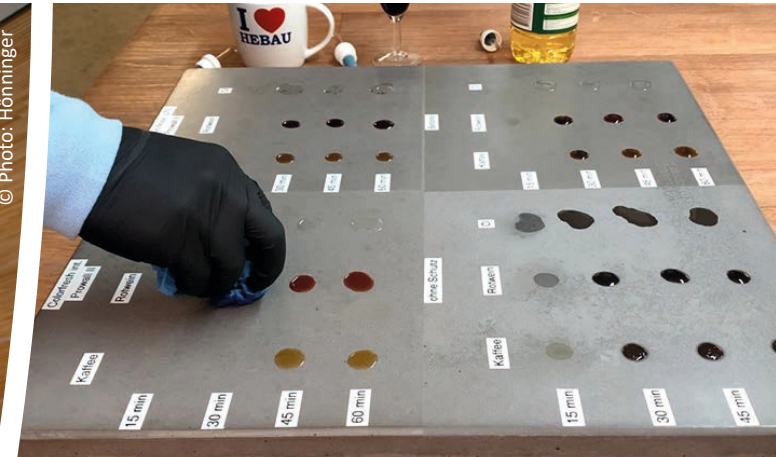


## EXAMPLES

### PROWALL II



**PROWALL II** was applied to these buildings to protect against graffiti.  
Please contact us for a consultation.



**Tip: PROWALL II** is also used as a stain blocker for concrete surfaces with high exposure to stains, like countertops for example. For such applications our products have been tested and approved as “safe for food contact”.

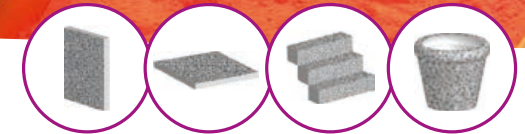


# COLOURING CONCRETE

## INTEGRAL COLOUR PIGMENTS (ICPS) FOR CONCRETE



Application areas



1. The pigments are mixed into the concrete.

2. Create colourful concrete!



**ICPs**

Integral Colour Pigments



Concrete samples with colour pigments

Photo: Dyckerhoff Weiss, Wiesbaden



Coloured concrete

Coloured concrete with **ICPs** does not require maintenance and repairs which would be necessary if the facade were painted.

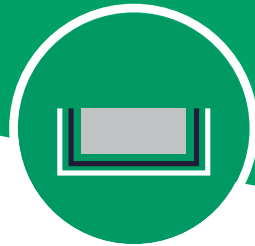


© Photos: BKMBAU <https://bkm-bau.de>

**ICPs** are inorganic and lightfast. The immediate and long-term colour effect depends on a few factors outlined in the technical data sheet leaflet. See Download Center.



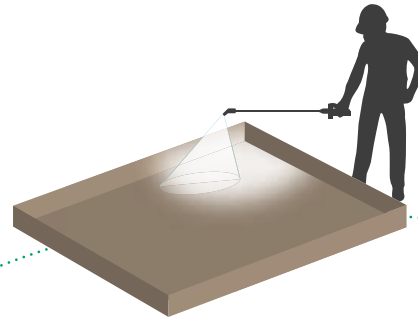
# MOULD RELEASE AGENTS



The easy demoulding allows best concrete surface skin quality free of stains and residue. The durability of the mould is increased and the time required to clean the mould is reduced to a minimum.

1. The release agent is applied on the mould.

2. Result: top quality, smooth, form-finished concrete.



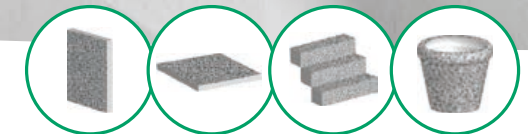
**WABICON HP**  
Release agent for smooth  
form-finished concrete

**Tip:** “The more the better” is not good advice when applying demoulding agents. Apply demoulding agents sparingly. A thin film gives better concrete surface results – “less is more”.



*Wabicon HP is optimal  
for best quality concrete  
surfaces.*

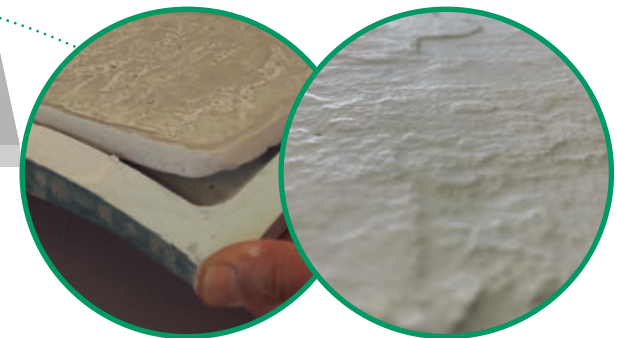
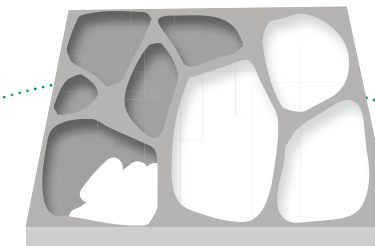
## Application areas



**WETCAST-FormFluid HP** is a special mould release agent for sensitive plastic and rubber forms (e.g. ABS, PU, silicone, latex, etc.) often used for small precast concrete.

1. The release agent is applied on the mould.

2. Result: Top quality, smooth, form-finished concrete.



**WETCAST-FormFluid HP**  
High performance mould release agent



# ADDITIVES FOR HIGH QUALITY CONCRETE



1. These additives can be added into the concrete mix. Use one or any combination depending on application.



2. Result: Top quality concrete surfaces.



**HYDROMIX-FLUID 50**  
contains water-repelling active ingredients, prevents efflorescence  
➤ Page 51



**ARCON-Fluid+PLUS**  
plasticizer based on PCE-technology for semi and self-compacting concrete  
➤ Page 52



**TECHNOFIBER**  
Microfibres to reduce plastic shrinkage cracks.  
➤ Page 53

## HYDROMIX-FLUID 50 Admixture



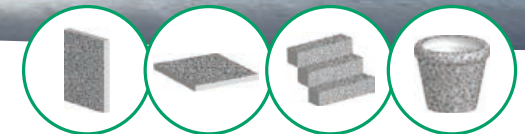
- ✓ creates a water-repelling effect
- ✓ permanently bonded in concrete matrix
- ✓ protects against efflorescence
- ✓ increases colour-stability
- ✓ increases freeze/thaw resistance
- ✓ dirt-repellent effect
- ✓ reduces weathering effects
- ✓ suitable for automated dosing systems

## Avoid efflorescence with HYDROMIX-FLUID 50

The water-repellent effect of **HYDROMIX-FLUID 50** prevents lime efflorescence (the limescale deposited on the surface) and protects the colouring effect of the pigments.



## Application areas





## ARCON-Fluid<sup>PLUS</sup>

Plasticizer based on latest PCE-technology



- ✓ suitable for self-compacting/self-levelling concrete
- ✓ suitable for semi-self-compacting
- ✓ acts as a finishing aid
- ✓ reduces/avoids segregations
- ✓ reduces/avoids pores/air holes
- ✓ active ingredients on PCE-basis
- ✓ no adverse reactions (e.g. acceleration)
- ✓ reduces plastic shrinkage
- ✓ suitable for automated dosing systems

### TIP:

**ARCON-Fluid<sup>PLUS</sup>** has a high active ingredient content i.e., it works even in low dosage rates. Perfect for architectural concrete and precast concrete.



**ARCON-Fluid<sup>PLUS</sup>** helps to avoid segregations and to reduce vibration.

## Be in the “flow” – with the latest plasticizer technology of ARCON-Fluid<sup>PLUS</sup>

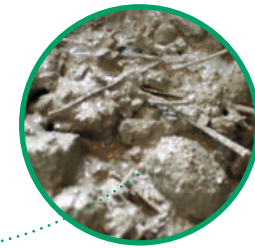
**ARCON-Fluid<sup>PLUS</sup>** is a modern plasticiser based on PCE-technology. Ideal for semi-self-compacting or fully self-levelling concrete. It enables the production of homogenous and pore-free concrete surfaces.



Application example

## FIBRES

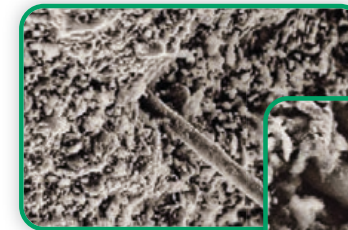
for concrete



## TECHNOFIBER

Microfibres to reduce plastic shrinkage cracks

- ✓ reduce plastic shrinkage cracks
- ✓ increase surface strength
- ✓ increase flexile strength
- ✓ easy batching – no extra mixing time necessary
- ✓ good for concrete (precast and ready-mixed)
- ✓ good for cementitious screed
- ✓ good for industrial floors
- ✓ good for terrazzo



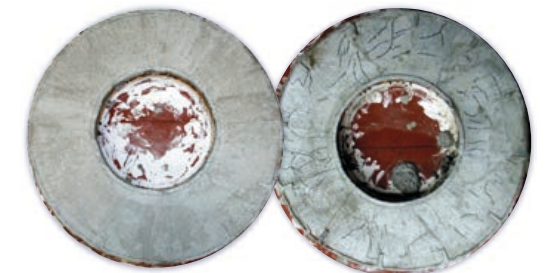
TECHNOFIBER  
under the microscope



## Absorbing the breaking point – with fibres TECHNOFIBER

Shrinkage cracks on the surface of concrete or cementitious screed may occur when the fresh concrete/screed surface is creating so called plastic shrinkage stress in the first hours of hydration, at a time when the early strength is still too low to compensate this deformation.

**TECHNOFIBER** are microfibers that absorb compressive stress during the hardening phase. The fibres also lead to higher wear and abrasion resistance and have many more advantages.



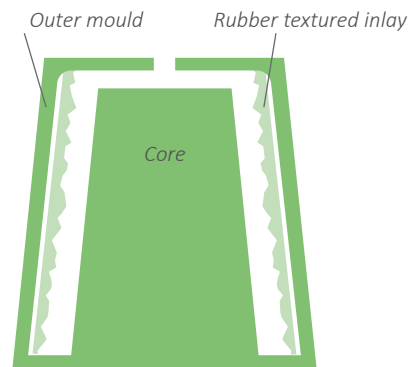
Left: Concrete with  
**TECHNOFIBER**

Right: without  
**TECHNOFIBER**

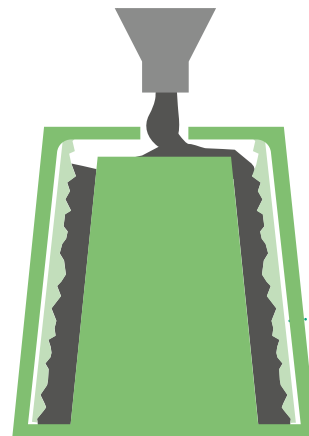


# MOULDS

(WITH/WITHOUT RUBBER INLAY)



Cross section of a mould with rubber textured inlay



1. Apply mould release agent to mould. Fill with concrete. Allow to dry.

2. Demould. Done.

Fibreglass is a special high-tech material for forms for the repetitive production of concrete planters and city furniture with specific geometrical shapes. Our forms are designed and made for unlimited re-use with special attention to detail such as handles for easy handling. We offer modern designs and are happy to work with you to realise new ones according to your wishes.

Our forms come in different shapes and sizes with an optional rubber inlay for specific textures.



**Tip:** For best concrete surface results and optimal care of your forms, we recommend our special release agent **WETCAST-FormFluid HP**.

➤ Page 49



Example of surface texture

**Tip:** Here you'll find instructions on how to use our forms with exposed aggregate concrete.

➤ Pages 12/13



## MORE PRODUCTS AND ACCESSORIES



### **CEMCLEAN - Allround-Cleaner for Concrete**

Can be easily applied on concrete surfaces and other mineral substrates, e.g. brick or limestone. **CEMCLEAN** can be diluted with water and is therefore economical and the grade of efficiency can easily be adapted to the intensity of the soiling.



### **HEBAU MICROGEL® Sprayer**

This low-pressure sprayer is suitable for spraying liquids of low PH-value such as **MICROGEL®**. The sprayer's set-up allows to spray very accurately avoiding spray mists. The components are acid resistant and all parts are easy to handle and clean.



### **HEBAU "Multi" Sprayer**

The sprayer's configuration and components are designed to ensure best spray coverage and low consumption rates if used with **HEBAU** mould release agents, solidly built and suitable for everyday use. Based on the solid set-up, the same sprayer is also suitable for **HEBAU CSE® Deactivators'** application. Just change the spray tip, according to the composition and viscosity of the **CSE® version**.

### **Alkali-Resistance Glassfibre Mats**

**AR-Glassfibre Mats** are used in particular for thin concrete to increase the flexural strength and prevent cracks during demoulding, transport and installation. The fibre mats are alkali-resistant (AR) for maximum durability.



### **Diamond Polishing Pads**

Our **Diamond Polishing Pads** are available in many different grain sizes from coarse to fine. They are easy to use, suitable for wet and dry polishing, have high wear resistance and are available as units or as a set.



And much more ...



**Coming soon**  
**WOW YOUR CONCRETE!** Shop



Coming soon

# Wow Your Concrete! Shop

## Concrete Design Made Easy

In our shop you will find products to make, enhance and protect your concrete. Our product selection is based on many years of experience in concrete design and will make your concrete-life easier. Refrain from trial and error, find many tips in our Do it Yourself videos and our how-to blog.

Choose a topic and start your concrete project!

### Our Product Selection:

- Protective Coatings
- DIY Sets
- Accessories
- Additives
- Glass fibres
- Deactivators for Exposed Aggregate Concrete
- Diamond Polishing Pads

And much more ...

**For more Inspiration and HEBAU News follow us on Social Media:**

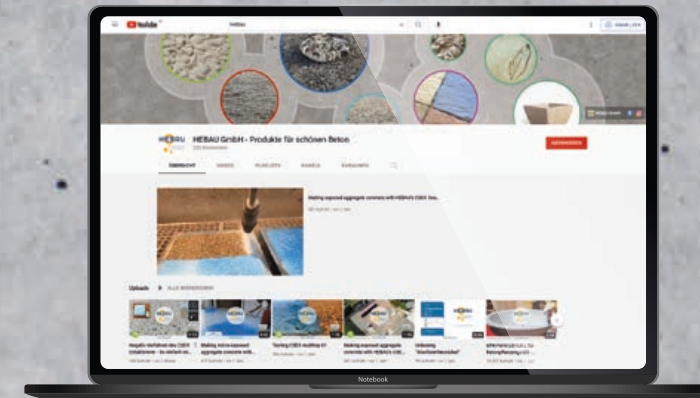
 [@wowyourconcrete](https://www.instagram.com/wowyourconcrete)

 [Wow Your Concrete](https://www.youtube.com/WowYourConcrete)

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## HEBAU ON SOCIAL MEDIA

Don't miss any news and always stay Up-To-Date.  
**Follow us #hebau**



**HEBAU GMBH**

### On our youtube channel

You'll find helpful videos explaining how to use our products.



**@hebau\_gmbh**

### HEBAU on Instagram:

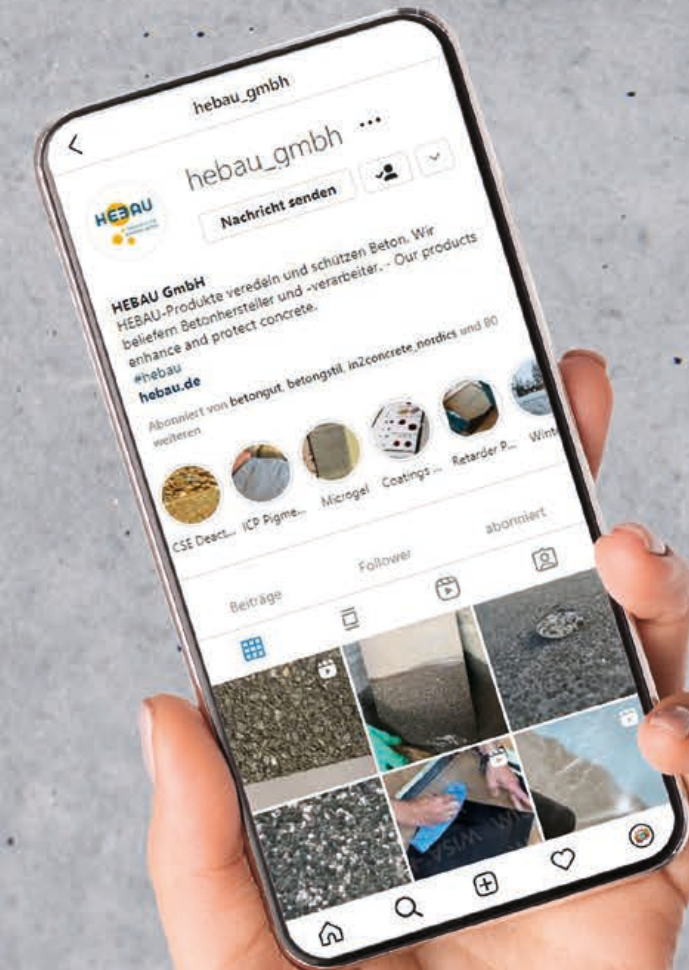
Info on the application of our products, product news, sneak previews from our lab and much more on our Instagram channel.



**@hebaugmbh**

### HEBAU on Facebook:

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**CSE®**  
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**Retarder Paper**  
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**MICROGEL®**  
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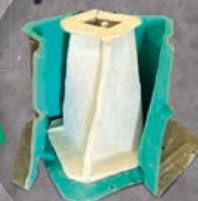


**PowerGrit**  
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**Mould Release Agents**  
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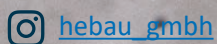
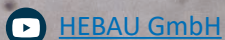
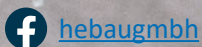
**ICPs**  
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**Additives and Fibres**  
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CONCRETE

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