Screed and Floor Systems

Product overview

Contents

What we can offer you

Quality and service

With our high quality products, we at MC-Bauchemie can offer solutions to meet every construction challenge. As your expert advisers, we will also give you all the support you need – both electronically / telephonically from our offices, and personally on your site, covering all the bases from planning to implementation.

The names MC-Estrifan, Powerscreed and Easycreed stand for a range of service proven, thoroughly coordinated, intermatched and integrated solutions capable of meeting all your screed and floor system requirements, with individual consultation to give you maximum assurance and reliability.

This overview should help you with your daily on-site work and also discussions with your own customers. As a tool, it will ensure that you always have the appropriate formulation to hand and thus the capability to provide high quality floors – quick, simple and reliable in compliance with the highest standards.

If you have any questions relating to our products, simply get in touch with your MC technical adviser. You can also find further information any time at:

www.mc-bauchemie.com

Self levelling compound

MC-Estrifan SN – the smooth solution

Things go particularly smoothly when you use floor levelling systems like **MC-Estrifan SN**. Self levelling and immediately ready to use, they really do a good job. Just add water, stir and apply in the required layer thickness. MC-Estrifan SN products are ideal for smoothing out uneven cement screeds and concrete floors – ensuring exceptional results whether indoors or out. Offering the special benefits of a high tech ready to use compound, MC-Estrifan **SN 60 T** is a polymer modified screed mortar of the strength class **CT -C40-F6-A15-B1.5**. An ideal repair mortar, it is quickly loadable and effectively adheres even to heavily inclined surfaces.

SN 10/SN 25

Mixing the floor levelling mortar

Simply add the powder to the readied water and mix for at least 3 minutes. Wait one minute and then briefly stir again.

Application

To achieve best results, use a squeegee to apply the floor levelling mortar on the freshly laid bonding coat. Make sure you have a plentiful supply of free-flowing mortar to add as the screed layer forms.

SN 60 T

Installation of the screed mortar

Once you have mixed the mortar, apply it as usual: distributing and skimming as you go.

Smoothing

You can improve the surface by smoothing the fresh screed with a trowel.

MC-Estrifan

SN 10

Self levelling mortar for floors

Description

- Ready to use – just mix with water
- Polymer modified
- Pumpable
- Self levelling
- Quickly loadable
- Workable up to layer thicknesses of **15 mm** in one layer
- Low emission product in accordance with **AgBB**[1] **(VOC)**, low chromium content per **TRGS**[2] **613**
- Waterproof, frost resistant
- Strength class: **EN 13813-CT-C25-F5 A22-B1.5**

Areas of application

- Levelling of rough/uneven cement and concrete screeds, ceramic and natural stone paving systems etc., indoors and outdoors
- Underfloor heating
- Substrate for floor coverings such as tiles, carpets etc.

Properties

Working time
Approx. 30 minutes*

Working temperature
At least +5 °C
Maximum +30 °C

Drying times*
Accessible: after 3 hours
Fully loadable: after 6 hours

Consumption
Approx. 1,6 kg/m²/mm

Form of delivery

25 kg bags
(pallet: 40 bags)

CE

MC-Estrifan

SN 25

Self levelling mortar for floors

Description

- Ready to use – just mix with water
- Polymer modified
- Pumpable
- Self levelling
- Workable up to layer thicknesses of **5 mm to 25 mm** in one layer
- Good mechanical properties (trafficable for cars, wheelchairs and similar wheeled/caster-borne vehicles)
- Frost resistant
- Strength class **EN 13813-CT-C25-F6-A22-B1.5**

Areas of application

- Levelling of rough/uneven cement screeds and concrete floors indoors and out
- Prefab concrete garages
- Underfloor heating

Properties

Working time
Approx. 30 minutes*

Working temperature
At least +5 °C
Maximum +30 °C

Drying times*
Trafficable: after 12 hours
Overworkable: after approx. 24 hours – depending on cover type

Consumption
Approx. 1,8 kg/m²/mm

Form of delivery

25 kg bags
(pallet: 40 bags)

CE

MC-Estrifan

SN 60 T

Cement based screed mortar

Description

- Ready to use – simply mix with water
- Pumpable with screed pumps
- Quickly loadable
- Easy to apply by hand and with blade trowels
- Workable up to layer thicknesses of **10 mm to 60 mm** in one layer
- Frost resistant in cured condition
- Strength class **EN 13813-CT-C40-F6-A15-B1,5**

Areas of application

- Levelling of rough/uneven cement screed and concrete floors
- Levelling and placement of screeds on steeply sloped areas, e.g. ramps
- Provision of screeds on separation layers and composite screeds in indoor and outdoor areas

Properties

Working time
Approx. 30 minutes*

Working temperature
At least +5 °C
Maximum +30 °C

Drying times*
Trafficable: after 24 hours
Overworkable: after CM measurement, depending on cover type

Consumption
Approx. 1,8 kg/m²/mm

Form of delivery

25 kg bags
(pallet: 40 bags)

CE

1 German Committee for Health-Related Evaluation of Building Products
2 German Technical Rules for Hazardous Substances

* at +20 °C air temperature and 50 % relative humidity.

Accessory guide for self levelling flooring systems

Manufacturer	Putzmeister
Machine	Spiral pump S 5 EVTM

Products	MC-Estrifan SN 10	MC-Estrifan SN 25
Mixer	yes	
Static Mixer	—	
Spiral	2L54	
Stator incl. rotor	—	
Flowrate*	7–40 l/min	
Pump pressure	25 bar	
Pumping distances**	to 60 m	
Pumping height**	to 40 m	
Motor	5.5 KW	
Mixer drive	2.2 KW	
Mixer volume	80 l	
Funnel volume	100 l	
Gear motor mixing area	—	
Gear motor pump area	—	
Highest level	—	
Dimension in mm	2.505 x 680 x 1.150	
Weight in kg	400	
Mortar tube***	NW 35 (Ø 48 external diameter)	
Results of the mixing with machine		
Water	5.0 l per 25 kg bag	4.5 l per 25 kg bag
Material quantity per mixture	5 bags (per 25 kg)	5 bags (per 25 kg)
Flow spread	approx. 30 cm	approx. 27 cm
Mixing time	3 min	3 min
Prisms Tensile and compressive strength in N/mm²	1d: 4.4 / 13.8 7d: 6.6 / 20.3 28d: 6.8 / 23.6	1d: 4.1 / 12.2 7d: 7.0 / 26.3 28d: 9.1 / 40.3

* The pumping quantity depends on the pump type. Depending on the used pump, the quanitity may vary.
** Values are guidelines and material dependent.
*** Mortar tubes have to be pre-slurried with cement slurry in honey-like consistency.

The machinery and accessories have been tested with the MC-mentioned products. Machinery and equipment from other manufacturer may also be suitable. However, appropriate preliminary tests are carried out by specialist companies. If necessary, please ask for our technical advice.

Cure, care and consolidation

Visually attractive and highly resistant

Floor surfaces today need to be a great at many levels: anti-slip, water retentive, easy to clean and/or visually attractive – even after years of use. The MC-Estrifan range of solutions enables the enhancement of cement-bound industrial floors and screed and concrete surfaces of all kinds – with sustainability and, in particular, cost efficiency part of the package. **MC-Estrifan SI**, for example, consolidates the surface, making it more resistant against wear and liquid penetration.

MC-Estrifan SI

Application

As soon as the screed or concrete is accessible, moisten the surface evenly, e. g. with a Gloria spraying pump or MC-Spezialspritze. Avoid puddle formation.

MC-Estrifan SI is evenly applied with a Gloria spraying pump or MC-Spezialspritze in a crosswise and lengthwise pattern on the matt damp surface. The treated area must be kept moist until the reaction has been completed (approx. 60 minutes). If MC-Estrifan SI is used as wet curing, the surface has to be kept wet for the minimum of 24 hours.

Remove

To remove the soapy compound apply once more water on the surface. The surplus, soapy residue should then be removed with a rubber squeegee or rinsed away. Repeat this procedure until the concrete has a matt finish and no slippery sites exist. If necessary take further actions of curing.

MC-Estrifan

SI

Surface consolidation

Description

- Hydrophobic effect
- Increases resistance to water penetration and wear related deterioration of cement based surfaces
- Increases the tensile and surface tensile strength of cement based surfaces
- Increases resistance to de-icing salt attack on cement based surfaces

Areas of application

- Treatment of concrete and screed surfaces
- Cement based industrial flooring
- Improving the tensile strength of composite screeds
- Wet post-curing agent for concrete and screed surfaces in interior areas

Properties

Working time
min. 60 minutes

Working temperature
min. +5 °C
max. +30 °C

Consumption
min. 200 g/m²

Form of delivery

30 kg canisters
200 kg barrels

MC-Estrifan duromer resins

Surface sealing and protection

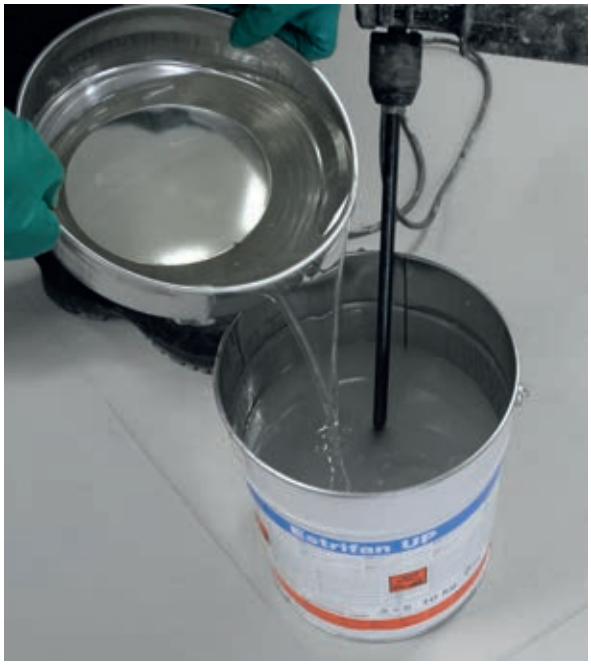
For crack repairs, void filling and the sealing and impregnation of screed and concrete surfaces, MC-Estrifan also offers a range of duromer resins capable of meeting every protection requirement.

Sealing primer to negate the effect of rising damp/residual moisture

Follow-up works have to be done, but the screed is still not sufficiently cured? **MC-Estrifan HB** is an ideal sealing for residual moisture levels of below 6 CM %. It allows quick overworking of the floor – within the schedule.

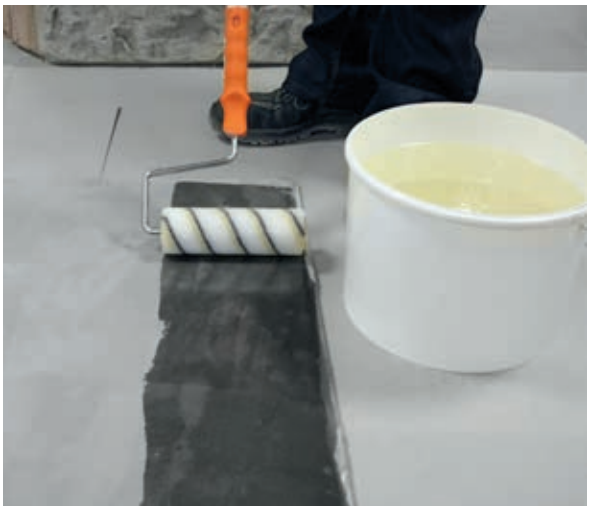
Primer and repair coat in one

MC-Estrifan UP and **MG** are particularly versatile, suitable for both priming and, with a special quartz sand, as a binder for repair mortars.



1. Primer

Once mixed, apply the primer with a squeegee or roller, then sprinkle with oven dried quartz sand (size 0.1 – 0.3 mm, approx. 1 kg/m²). The surface is ready for overworking within 24 hours.



2. Repair coat

Mix and add oven dried quartz sand (size 0.1 – 0.3 mm). Mixing ratio 1:1 to 1:2 by weight for scratch and void repair coats (e.g. 1 kg resin to 1 kg quartz sand), mixing ratio 1:4 parts by weight as repair mortar (with this mixing ratio, a primer will need to be applied first to the surface). If not overworked within 24 hours, sand the fresh repair coat in order to ensure subsequent bonding.

MC-Estrifan

UP

Solvent free, transparent duromer resin

Description

- Two component
- Solvent free
- Transparent
- Low viscosity
- Very good adhesion to mineral substrates
- Highly fillable with oven dried quartz sand

Areas of application

- Primer for screeds
- Bonding agent for epoxy resin mortars, scratch/void fillers and repair coatings
- Rigid, load bearing filling of dry cracks with widths between 1 and 2 mm

Properties

Working time
1 kg units: approx. 30 minutes (at +20 °C)
5 kg units: approx. 25 minutes (at +20 °C)
10 kg units: approx. 20 minutes (at +20 °C)
30 kg units: approx. 15 minutes (at +20 °C)

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after **12 hours**
Fully loadable: after 7 days

Consumption
As primer: 0.3 – 0.5 kg/m²**
As bonding agent: 0.3–0.5 kg/m²***
As mortar (resin): 0.4 kg /m²***

Form of delivery

1 kg twin units
5 kg twin units
10 kg twin units
30 kg twin units
(6 x 1 kg in one box)

CE

MC-Estrifan

MG

Solvent free and transparent duromer resin

Description

- Two component
- Solvent free
- Transparent
- Very good adhesion to mineral substrates
- Highly fillable with oven dried quartz sand

Areas of application

- Primer for screeds
- Bonding agent for epoxy resin mortars, scratch/void fillers and repair coatings
- Rigid, load bearing filling of dry cracks of widths between 1 and 2 mm

Properties

Working time
1 kg units: approx. 30 minutes (at +20 °C)
5 kg units: approx. 25 minutes (at +20 °C)
10 kg units: approx. 20 minutes (at +20 °C)
30 kg units: approx. 15 minutes (at +20 °C)

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after **24 hours**
Fully loadable: after 7 days

Consumption
As primer: 0.3 – 0.5 kg/m²**
As bonding agent: 0.7 – 0.8 kg/m²***
As mortar (resin): 0.4 kg /m²***

Form of delivery

1 kg twin units
5 kg twin units
10 kg twin units
30 kg twin units
(6 x 1 kg in one box)

CE

* At +20 °C air temperature and 50 % humidity.
** Depending on the substrate.
*** Mixing ratio 1:4.

MC-Estrifan

IH

Duromer resin for filling of cracks in screed and concrete floors

Description

- Two component
- Solvent free
- Low viscosity
- Good penetration into cracks and voids
- Transparent – light yellow

Areas of application

- Impregnation of hairline and craquele cracks
- Rigid, load bearing filling of cracks and voids in screeds and structures made of concrete and reinforced concrete
- Suitable for crack widths **> 0,2 mm**

Properties

Working time
approx. 40 minutes (at +20 °C)

Working temperature
min. +8 °C
max. +30 °C

Form of delivery

1 l twin units
(6 x 1 l in a box)

CE

MC-Estrifan

RIS

Duromer resin for filling of cracks in screed and concrete floors

Description

- Two component
- 400 ml twin cartridges
- Applied using the MC-Estrifan RIS-Jet dispenser
- Solvent free
- Low viscosity
- Good penetration into cracks and voids
- No separate mixing necessary
- Easy and clean to use

Areas of application

- Impregnation of hairline and craquele cracks
- Rigid, load bearing filling of cracks and voids in screeds and in concrete and reinforced concrete structures

Pot time/reaction time

approx. 11 minutes (at +20 °C)

Working temperature

min. +8 °C
max. +30 °C

Form of delivery

Box with 6 x 400 ml two component cartridges and 10 static mixers

RIS-Jet (twin cartridge gun dispenser for MC-Estrifan RIS)

Description

- Ensures precise, cost efficient application
- No separate mixing process
- Immediately ready for use
- No power supply and no cleaning necessary

Form of delivery

1 gun per box

* at +20 °C air temperature and 50 % relative humidity.

MC-Estrifan

TG

Screed impregnating agent

Description

- Two component duromer resin
- Solvent based
- Transparent and grey
- Can be applied by brushing, rolling and spraying
- Shiny finish

Areas of application

- Impregnation of cement screed surfaces to bind dust (transparent)
- Increases the resistance of cement screeds to the freeze thaw cycle
- Coloured coating of screed floors

Properties

Working time
approx. 2 hours*

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after 8 hours
Overworkable: after 6-8 hours
Fully loadable: after 7 days

Consumption
Transparent: 150–250 g/m²
Coloured: 250–300 g/m²

Form of delivery

MC-Estrifan TG transparent:
10 kg twin units

MC-Estrifan TG coloured:
12 kg twin units

MC-Estrifan

D

Screed impregnating agent

Description

- Two component duromer resin
- Solvent free
- Water dispersed
- Adheres even to slightly damp (without visible moisture) mineral substrates
- Highly flame resistant (fire resistance class **B_{fl}-s1** to **EN 13501-1**)
- Transparent and grey
- Can be applied by brushing, rolling and spraying
- Satin finish

Areas of application

- Impregnation of cement screed surfaces to bind dust (transparent)
- Increases the resistance of cementitious screeds to mechanical and chemical attack
- Coloured coating of screed floors

Properties

Working time
approx. 2 hours*

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after 16 hours
Overworkable: after 6-8 hours
Fully loadable: after 7 days

Consumption
Transparent: 150–250 g/m²
Coloured: 250–300 g/m²

Form of delivery

10 kg twin units
(30 kg twin units on request)

CE

MC-Estrifan

HB

Solvent free, pigmented duromer resin

Description

- Two component duromer resin
- Solvent free
- Colour: pebble grey, approx. **RAL 7032**
- Good adhesion to mineral substrates
- Coating with high scuff resistance

Areas of application

- Bonding layer between old and green concrete
- Repair coat/filler for voids and cavities in screed
- Coating of cement screeds
- Damp proofing for increased humidity **(< 6 CM-%)**

Properties

Working time
10 kg unit: approx. 40 minutes*
1 kg unit: approx. 45 minutes*

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after 12 hours
Overworkable: after 6-8 hours
Fully loadable: after 7 days

Consumption
As bonding agent: 1–1,5 kg/m²

Form of delivery

10 kg twin units
(pallet: 42 twin units)
1 kg twin units
(6 x 1 kg per box)

CE

* at +20 °C air temperature and 50 % relative humidity.

Bonding agent and primer

Mineral bonding agent

Difficult surfaces? Not with **MC-Estrifan Haftbrücke**. This bonding agent offers optimal adhesion on mineral substrates such as concrete, mortar or screed. The product is immediately ready for use – just mix with water and see how easy it is to apply.

Mixing and application

Simply pour the powder into the readied water, stirring as you go, and keep the agitator running at slow speed for at least 3 minutes. Once mixed, work the bonding agent into the substrate with a broom or scrubbing brush, making sure that it gets into the pores and cavities. Screed mortars such as MC-Estrifan SN products should then be applied wet-on-wet.

Priming

If you are faced with absorbent or sandy substrates, **MC-Estrifan Grund T15** is the primer for you. This seals and consolidates, and is ideally suited to adhesion enhancing applications.

Preparation and application

MC-Estrifan Grund T15 comes in liquid form ready for immediate use. Simply spread evenly with a roller or brush in a crosswise motion. As soon as the substrate is dry to the touch, it can be covered with **MC-Estrifan SN 10** or **SN 25**.

MC-Estrifan

Haftbrücke

Mineral bonding for cementitious substrates

Description

- Ready to use – simply mix with water
- Single component
- Solvent free
- Easy to apply
- Provides a secure bonding
- Colour: grey

Areas of application

- Bonding agent for adhesion of cementitious materials on mineral substrates

Properties

Working time
approx. 60 minutes*

Working temperature
min. +5 °C
max. +30 °C

Consumption
1,2 kg/m²

Form of delivery

25 kg bags
(pallet: 35 bags)

CE

MC-Estrifan

Grund T15

Primer for cementitious substrates

Description

- Single component
- Solvent free
- Reduces absorbency
- Stabilising, consolidating effect
- Can be sprayed and rolled

Areas of application

- Primer for absorbent substrates before application of **MC-Estrifan SN 10** and **MC-Estrifan SN 25**
- Consolidation/stabilisation of dusty and sandy substrates
- Deep penetration primer for highly absorbent substrates

Properties

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Overworkable: after 1 hour

Consumption
150 – 250 ml/m²

Form of delivery

10 l canisters

MC-Estrifan

HB

Duromer resin bonding agent for cement based substrates

Description

- Two component duromer resin
- Solvent free
- Colour: pebble grey, approx. **RAL 7032**
- Good adhesion to mineral substrates
- Coating with high resistance

Areas of application

- Bonding layer between old and green concrete
- Filling of voids and cavities in screed
- Coating of cement screeds
- Damp proofing for increased humidity **(< 6 CM-%)**

Properties

Working time
10 kg units: approx. 40 minutes*
1 kg units: approx. 45 minutes*

Working temperature
min. +8 °C
max. +30 °C

Drying times*
Trafficable: after 12 hours
Fully loadable: after 7 days

Consumption
1 – 1,5 kg/m²

Form of delivery

10 kg twin units
(pallet: 42 twin units)
1 kg twin units
(6 x 1 kg per box)

CE

* at +20 °C air temperature and 50 % relative humidity.

Screed enhancement

Powerscreed

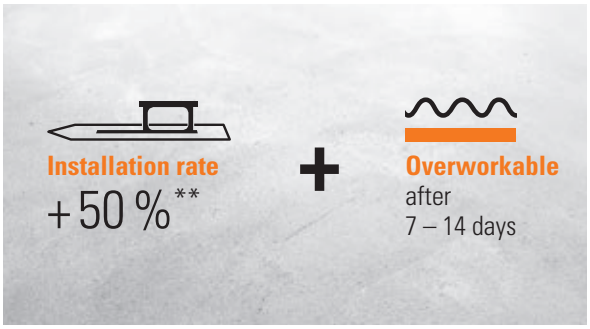
Powerscreed – ready for overworking within 7 to 14 days

On site, time is money and speed is always of the essence – so things need to be simple, fast and schedule friendly. Powerscreed helps by putting an end to long waiting times. Simply add to the screed, apply as usual, and that's it. The screed will dry extra quickly and thus be ready for overworking sooner, shortening waiting times to a minimum – with constantly good processing properties and up to 50 % higher laying capacity than conventional accelerators. **It means for you more square meters in less time.**

Your benefits:

- Simple, accurate dosage
- Consistently good workability
- Can be readily skimmed and smoothed to give a uniform surface
- Efficient laying capacity
- Short drying time, earlier overworking
- Re-wettening protection

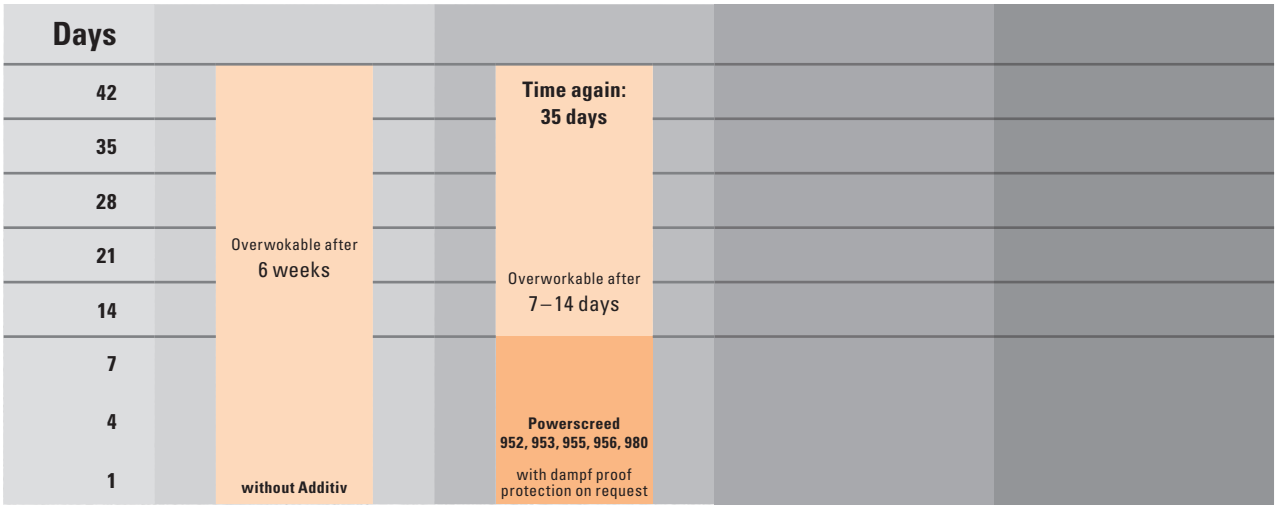
Powerscreed is ideal for composite or heating screeds, for screeds laid on a separation layer or an insulating layer, and always leads to high mechanical properties and easy screed workability.



= 35 days in time savings*

* For 5 cm screed thickness and normal ambient conditions (+20 °C, 50 % relative humidity).

** Compared to working with conventional accelerators.



* at +20 °C air temperature and 50 % relative humidity.

Powerscreed

952

Strength increasing screed accelerator for cement screeds

Description

- Reduces drying time
- Good screed workability
- High water savings
- Liquid consistency

Areas of application

- Screeds up to **EN 13813-CT-C35-F6**
- Heating screeds
- Screeds with good mechanical properties for early access and overworking

Properties

Working time
approx. 30 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Overworkable: after 7 to 14 days

Consumption
1–2 % of cement weight

Form of delivery

35 kg canisters
230 kg barrels
1,000 kg containers

Powerscreed

953

Strength increasing screed accelerator for cement and anhydrite screeds

Description

- Reduces drying time
- Good screed workability
- High water savings
- Liquid consistency

Areas of application

- Screeds up to **EN 13813-CT-C35-F6** and **EN 13813-CA-C25-F4**
- Heating screeds
- Screeds with good mechanical properties for early access and overworking

Properties

Working time
approx. 30 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Overworkable: after 7 to 14 days

Consumption
1–2 % of cement weight

Form of delivery

35 kg canisters
230 kg barrels
1,000 kg containers

Powerscreed

955

Strength increasing screed accelerator with re-wettening protection for cement screeds

Description

- Reduces drying time
- Accelerates hardening/drying
- Hydrophobic effect
- Allows a higher water reduction
- Very good plasticising and processing properties
- Stabilising and strength increasing effect
- Pasty consistency

Areas of application

- Screeds up to **EN 13813-CT-C40-F6**
- Heating screeds
- Screeds for early access and overworking

Properties

Working time
approx. 30 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Trafficable: after 4 days
Overworkable: after 7 days

Consumption
1.5 l per 50 kg cement

Form of delivery

30 kg hobbocks
(pallet: 12 hobbocks)

* at +20 °C air temperature and 50 % relative humidity.

Powerscreed

956

Strength increasing screed accelerator with re-wettening protection for cement screeds

Description

- Reduces drying time
- Hydrophobic
- Saves considerable amounts of water
- Very good plasticising and processing properties
- Stabilising and strength increasing effect
- Liquid

Areas of application

- Screeds up to **EN 13813-CT-C40-F6**
- Heating screeds
- Screeds for early access and overworking

Properties

Working time
approx. 45 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Trafficable: after 2 days
Overworkable: after 7 to 14 days

Consumption
1.5 l per 50 kg cement

Form of delivery

30 kg canisters
(pallet: 16 canisters)

Powerscreed

980

Setting accelerator enabling high water savings for cement screeds

Description

- Reduces drying time of 7 to 14 days
- Consolidating effect
- Curing accelerator
- Saves considerable amounts of water
- Improvement of processing properties
- Liquid

Areas of application

- Screeds up to **EN 13813-CT-C30-F7**
- Heating screeds
- Screeds for early access and overworking

Properties

Working time
approx. 30 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Trafficable: after 2 days
Overworkable: after 7 to 14 days

Consumption
Overworkable after 14 days:
0.35–0.45 l per 50 kg cement

Overworkable after 7 days:
0.5–0.6 l per 50 kg cement

Form of delivery

30 kg canisters
(pallet: 16 canisters)

Powerscreed

RC

High quality quick setting cement for screeds

Description

- Special quick setting cement
- Chloride free
- For cement screeds with good workability
- For easy pumpable screeds

Areas of application

- Quick setting cement for composite screeds and for screeds on separating layers
- Cement screeds in indoor areas up to **EN 13813-CT-C35-F5**
- Screeds in damp rooms
- Heating screeds

Properties

Working time
approx. 30 minutes*

Working temperature
min. +5 °C
max. +30 °C

Drying times*
Trafficable: after 4 hours
Overworkable: after 48 hours

Consumption
2–3 bags per made-up screed batch

Form of delivery

25 kg bags
(pallet: 40 bags)

* at +20 °C air temperature and 50 % relative humidity.

Screed enhancement

Easyscreed

Make life easy for yourself

Easycreed RS is a liquid additive for cement screeds.

Easycreed RS improves workability while at the same time having a re-wettening protection for cement screeds during the drying and curing phase.

The effectiveness of this additive depends on the origin and composition of the aggregates and also the type and quantity of the binder used.

Application

Easycreed RS should be added directly to the first batch of mixing water. **Easycreed RS** can also be combined with Powerscreed accelerators and MC-Estrifan additives.

The optimum dosage will need to be determined in preliminary trials using local aggregates and cements. This suitability testing phase should also be used to determine the technical properties of the screed's mortar and its workability.

In case of changes in the screed formulation, it is necessary once again to test the properties of the screed mortar produced with **Easycreed RS** through repeat trials.

Easyscreed RS

Liquid re-wettening protection
for cement screeds

Description

- Improves processing properties
- Economical dosages
- Minimises re-wettening during the drying phase
- Liquid consistency

Areas of application

- Screeds up to **EN 13813-CT-C35-F7**
- Heating screeds
- Used as a workability aid and re-wettening protection

Properties

Consumption
0.3–0.5 l per 50 kg cement

Working temperature
min. +5 °C
max. +30 °C

Form of delivery

30 kg canisters

Screed enhancement
Plasticisers

High performance by application

Faster screed application with consistently good results: with MC-Estrifan additives, you can lay more screed in less time, with greater ease and, above all, with reliability based on optimised technical properties. Our high performance additives generate a strong plasticising effect, making the screed easier to level and smooth and reducing the danger of early shrinkage. They also ensure optimum cement yield combined with outstanding green strength values.

Preparation

Simply pour **MC-Estrifan Additiv P 900** into the readied water and mix as usual. Whatever the application – cement screed, composite screed or screed on separating layer, heating screed or concrete for industrial floors – you will have a layer that's easy to compact and exhibits a uniform, homogeneous structure.

You will need to determine the optimum dosage in preliminary trials involving the aggregates and binders envisaged for the job. And we will gladly be there with you to provide all the support you need.

MC-Estrifan Additiv

P 900

High performance plasticiser for screeds

Description

- Strong plasticising effect
- Optimum binder hydrolysis
- Saves considerable amounts of water
- Increases flexural and compressive strength values
- Improves workability
- Reduces early shrinkage

Areas of application

- Production of easily workable, high grade screeds
- Cement screeds up to **EN 13813-CT-C40-F6**
- Anhydrite screeds
- Composite screeds
- Screeds on separating layers
- Heating screeds
- Concrete for industrial floors

Properties

Working time
approx. 60 minutes*

Working temperature
min. +5 °C
max. +30 °C

Form of delivery

35 kg canisters
200 kg barrels
1,000 kg containers

	50 kg cement (2 bags)	62.5 kg cement (2.5 bags)	75 kg cement (3 bags)
Type EN 13813	CT-C25-F4	CT-C35-F5	CT-C40-F6
Dosage in [l] P 900	1.0	1.3	1.5

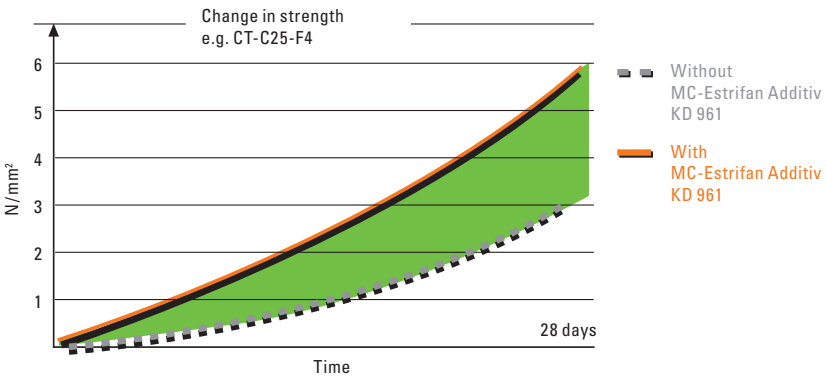
* at +20 °C air temperature and 50 % relative humidity.

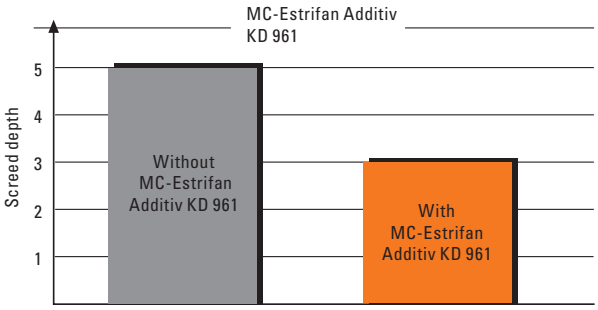
Screed enhancement
Dispersions

For speciality screeds

Screeds of 30 mm thickness: **MC-Estrifan Additiv KD 961** makes it possible – while also improving the technical properties. Simply add to the screed mix and watch how it becomes significantly more flowable and workable. That means easier screed application and a particularly high quality surface at the end.

As a further plus, **KD 961** – especially developed for thin layer and heavily stressed screeds – makes cement based systems more flexible, increases their flexural and compressive strength and reduces the danger of shrinkage cracks.





MC-Estrifan Additiv

KD 961

Dispersion for thin layered and high strength screeds

Description

- Liquid
- Silicone free
- Significantly increases flexural and compressive strength values
- Reduces the amount of shrinkage cracks
- Strong plasticising effect
- Good water retention
- Optimises the water/cement ratio

Areas of application

- Thin layered cement screeds
- Highly stressed cement screeds
- Heating screeds
- Screeds in paint shops, e. g. in the automobile industry
- Cement screeds up to **EN 13813-CT-C60-F11**

Properties

Working time
approx. 60 minutes*

Working temperature
min. +5 °C
max. +30 °C

Form of delivery

30 kg canisters
200 kg barrels

* at +20 °C air temperature and 50% relative humidity

Screed curing
Emcoril

The liquid foil for your screed

Protect your screed from drying out too fast. The optimal properties of the screed surface depend largely upon an uniform dehydratation. High temperatures, low humidity levels and draughts lead to uncontrolled evaporation and can damage the screed surface. **Emcoril** puts an end to the main causes for cracking, hollowness and spalling.

How it works

Once the screed has been compacted and smoothed, and while it is still matt-damp, apply Emcoril immediately, spraying it evenly over the entire surface. Emcoril forms a dense, sealing film. This curing coating protects the fresh screed from premature water loss.

Emcoril is applied using standard commercial spray equipment. To ensure layer evenness, maintain a distance between nozzle and surface of about 0.5 – 1.0 metres.

And additionally, using Emcoril in comparison to conventional curing treatments will also lead to savings. This is due to the low personnel required and also to the application in just one step. If it is a simple, reliable, inexpensive and environmentally compatible screed curing you are looking for, Emcoril is the one for you.

Emcoril

AC

Acrylate based curing agent

Description

- Solvent free
- Ready to use
- Alkali resistant
- Can be applied by rolling, brushing or spraying
- Makes the moistening of fresh concrete or screed surfaces unnecessary
- Can be coated with standard one component coating materials
- White
- Film forming
- Liquid

Areas of application

- Curing of indoor concrete and screed surfaces
- Curing of outdoor wall surfaces in case of normal conditions

Properties

Consumption

Approx. 150 – 200 g/m²

Form of delivery

30 kg canisters
200 kg barrels

Emcoril

S

Premium curing agent

Description

- Solvent free
- Ready to use
- Can be applied by rolling, brushing or spraying
- Protects from extreme exposure to sun and air movement
- Makes the moistening of fresh concrete or screed surfaces unnecessary
- Prevents insufficient hardening
- Reduces the speed of carbonation
- Milky white
- Film forming
- Liquid

Areas of application

- Curing of concrete and screed surfaces

Properties

Consumption
Approx. 150–200 g/m² depending on the environmental conditions

Drying times
Approx. 3 hours (at +20 °C)

Form of delivery

30 kg canisters
200 kg barrels

Practical tips

Glad to be in the mix

Working together for the optimum formulation

Tailored to your needs, we will find the formulation that most suits your application. For particularly thin layer screeds, for high quality screeds exposed to heavy stressing, for cratered or rough floors, cement or anhydrite screeds, bonding agents, primers, and screeds for large areas or tight schedules, rely on us to provide the on-site assistance you need, every step of the way.

Practical tips

1. With all screed admixtures, it is essential to comply with the specified dosage.
   - Consequently, always use a measuring cup.
   - Incorrect dosages can lead to extended drying times or strength loss.
2. Always protect your screed from drying out too quickly.
   - Air draughts and direct sunlight often lead to the development of cracks.
   - A curing treatment should always be applied.
   - Intermittent ventilation leads to faster drying.
   - For optimum drying of the screed, ensure a gentle, regular air exchange inside the room.

Screed and Floor Systems
Product overview

- Mineral bonding agents and liquid primers
- Self levelling flooring systems
- Consolidation for high quality surfaces
- Protective duromer resins for floor repairs and sealings
- Screed admixtures for fast access and overworking
- Re-wettening protection for cement screeds
- Plasticisers and dispersions for screed optimisation
- Personal on-site advice, practice-proven products and maximum quality assurance.

Information

Ask for it now – by post, fax or email!

Yes, I would like …

☐ … you to send me more information on MC's screed systems.

☐ … you to call me!

☐ … to see MC-Estrifan at work for myself! Please arrange an appointment for me as soon as you can.

Company: _____

Name: _____

Adress: _____

_____

Phone: _____

Email: _____

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