

PROCESSING INSTRUCTIONS



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CEM

X Meborapid®

DRYING ACCELERATOR FOR
CEMENT SCREEDS

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DRYING ACCELERATOR FOR CEMENT SCREEDS

MEBORAPID® – INSTRUCTIONS FOR APPLICATORS AND BUILDERS

Meborapid® is a screed admixture that significantly accelerates the drying of conventionally formulated cement screeds. The reason for this effect: Screed mortars can be mixed with much less water than normal when Meborapid® is used. Water that is never added to the mixture in the first place does not have to be evaporated later. The extra advantage offered by Meborapid® is that this water reduction does not adversely affect the accustomed consistency of the mortar: The screed mortar remains supple and easy to work.

HOW FAST DOES SCREED DRY?

Under normal job site conditions, the drying time of a cement screed can be calculated using a simple formula:

“Thickness of the screed squared times 1.6.”

According to this rule of thumb borrowed from the concrete industry, a six centimeter thick screed would have a drying time of $6 \times 6 \times 1.6 = 57.6$ days – that’s nearly two months!

With Meborapid® the time until the screed is ready for covering can be reduced by up to 40 %. In this case, a six centimeter thick screed is dry after only about 35 days – roughly three weeks sooner than in the example above.

The drying period can be reduced even further if condensation dryers are used – preferably in combination with fans. With cement screeds, these aids can be deployed 14 days after laying the screed. Under these conditions, a six centimeter thick, conventionally formulated cement screed is ready for covering after only around three to four weeks.

AT A GLANCE: MEBORAPID® ADVANTAGES FOR BUILDERS

- The floor covering can be laid sooner – the building makes faster progress.
- Less water in the mortar also makes the screed more robust. Meborapid® not only reduces the drying time, it also increases the compressive, flexural and surface strength of the screed.
- Meborapid® can be ideally combined with building drying. Common condensation dryers, for example, can further significantly shorten the time until the screed is ready for covering.

TIPS FOR BUILDERS

There are just a few things that must be observed – and these are also important when working with conventional mortar – if Meborapid® is to fully exploit its strengths and the drying time of the screed mortar is to be optimally shortened.

A screed, of course, can only dry if the air above the screed surface is capable of taking up larger amounts of water. In order for this to happen, the necessary physical parameters must be established. Optimal drying conditions require that the water-enriched air be quickly transported out of the building, for example. This can be achieved by means of targeted and considered ventilation.

Dehumidifiers are another good option for effectively removing moisture from the air above the screed. Windows and doors must be closed if dehumidifiers are used. Otherwise the devices are forced unnecessarily to also remove the moisture from the outside air entering the building.

HERE ARE A FEW TIPS FOR OPTIMAL DRYING:

- The room temperature above the screed to be dried should be 18 to 20 °C.
- Rooms are best ventilated intermittently or by opening the windows fully. The ventilation effect is only slight if the windows are just “tipped.”
- With cement screeds: Avoid drafts!
- In the summer, ventilate during the day. At night cool, moist outside air can enter the building and condense on the screed.
- Is there underfloor heating? If so, put it into operation as soon as possible to support the evaporation of the still-bound water. With cement screeds, this can begin 14 days after laying the screed. The heating processes must be documented.
- External heating units are required if the structure has no heating. The first choice here are electric forced air heaters, as open gas or oil burners release water formed during combustion into the room air.
- Keep the screed surface clear! Building materials, tarps or films hinder the drying of the screed beneath them.

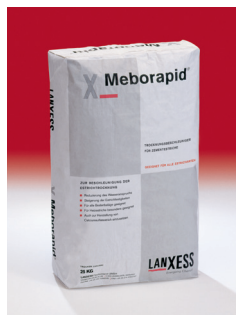
INFORMATION FOR SCREED LAYERS

- Be sure to meter properly! You will find metering information in our Meborapid® product information sheet.
- The proper metering sequence is very important. Rule of thumb: Always meter Meborapid® directly into the screed pump’s mixer before adding the binder – never into the mixing water in the tub.
- Observe a mixing time of 90 seconds after closing the mortar mixer.
- The normal thresholds according to the CM method (without correction factor!) apply with respect to ready for covering. Give the builder a copy of this pamphlet.

ARE THERE ALTERNATIVES TO DRYING ACCELERATORS SUCH AS MEBORAPID®?

There are always alternatives. If construction needs to go particularly quickly, screeds can also be made with “rapid cure cements.” These systems come at a price, however: They are many times more expensive than the use of admixtures that accelerate drying. They therefore only make sense when the floor covering has to be laid within one to two days of laying the screed. This can be necessary in the case of renovation work, for example. The construction of residential or administrative buildings is generally not subject to this time pressure, however. Experience shows that screed admixtures for accelerated drying – in combination with building drying measures as needed – are sufficient in 95 % of the cases.

For more information, go to:
www.anhydrit.de



MEBORAPID®

DRYING ACCELERATOR FOR CEMENT SCREEDS

MEBORAPID® PROPERTIES

- Accelerates screed drying
- Reduces the water requirement
- Increases screed strength
- Suitable for all floor coverings
- Particularly well suited for heated screeds
- Can also be used for the formulation of calcium sulfate screed

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