

ADDITIVES AND FIBRES

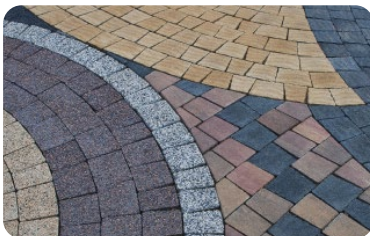
HYDROMIX® · ARCON-Fluid · TECHNOFIBER®

Added value – a buzzword, but with us it's reality

Concrete consists of cement, sand, gravel and water. And usually that's all you need to produce it. But in reality, functional additives can make the often challenging production much easier, in order to ensure that the desired results are achieved accurately. This all serves to either reduce complaints or to increase the profit margin potential of the concrete – in summary: "added value".

Avoiding efflorescence – by adding **HYDROMIX®-Fluid 50** water-repellents into the concrete mix

The so-called efflorescence is free lime, which settles on the surface as calcium carbonate CaCO_3 , many times causing discussions and creating complaints and headache to the producer. There is an effective remedy by adding a special water-repelling admixture **HYDROMIX®-Fluid 50**.



The principle is quite easy: If no water penetrates the concrete, no calcium can be transported to the surface through humidity evaporation,

the trigger to start the CaCO_3 formation on the surface. For example coloured concrete paving stones are a standard field of application for the **HYDROMIX®-Fluid 50** admixture.

Be in the "flow" – with the latest plasticizer technology of **ARCON-Fluid^{plus}**

It is not easy to keep track and not get confused with all the different concrete additives, with new products and names popping up almost daily. And every now and then you hear industry experts saying that the future of concrete is self-compacting concrete, only self-compacting concrete. Right or wrong? We don't know, but meanwhile you may keep up with the times with **ARCON-Fluid^{plus}**, a plasticizer based on PCE-technology. Good for both: true self-compacting concrete and semi-self-compacting if you want to reduce, but not eliminate vibration.

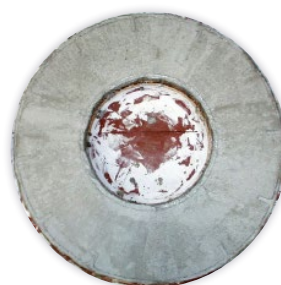
HEBAU-Tip: **ARCON-Fluid^{plus}** has a quite high content of active ingredients. So try it with a low dosage rate first. And you don't need to change your mix design to make it work, which is good to avoid changing the "look" of your architectural concrete.

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. Here special fibres are useful to bridge the time until the concrete itself is strong enough. The fibres also increase the flexile strength and have a long-term positive effect, especially on wear- and abrasion resistance.

Where, when and which product should you apply? Our technical specialists will help you for best product selection.

Inquiry



left: **TECHNOFIBER®**-reinforced concrete
right: concrete without fibres

Additives and fibres

Microfibres Technofiber®

- ✓ 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

By the way: You may find our list of products short compared to some of the big players in the concrete chemicals business. Well, yes, you are right. But this is not because we are tight-fisted – this is because we only sell products which we have tested ourselves and which have proven themselves with our customers.

Plasticizer ARCON-Fluid^{plus}

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

Integral water repelling by admixture HYDROMIX®-Fluid 50

- ✓ creates a water-repellening 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



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.

We also recommend:

Mould release agents	WABICON® HP or WETCAST-Form-Fluid HP	<i>for best concrete surface skin quality</i>
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