

# Mixing Technology for Polymer Concrete

- Aggregates of any grain size and density can be used
- Easy intermixing of organic or inorganic fibers
- Easy intermixing of ultra-fine materials
- More aggregates can be mixed in, reduced need for synthetic resin
- No premixing of resin and hardener required

## The unique working principle

### Rotating pan

for transporting the process material

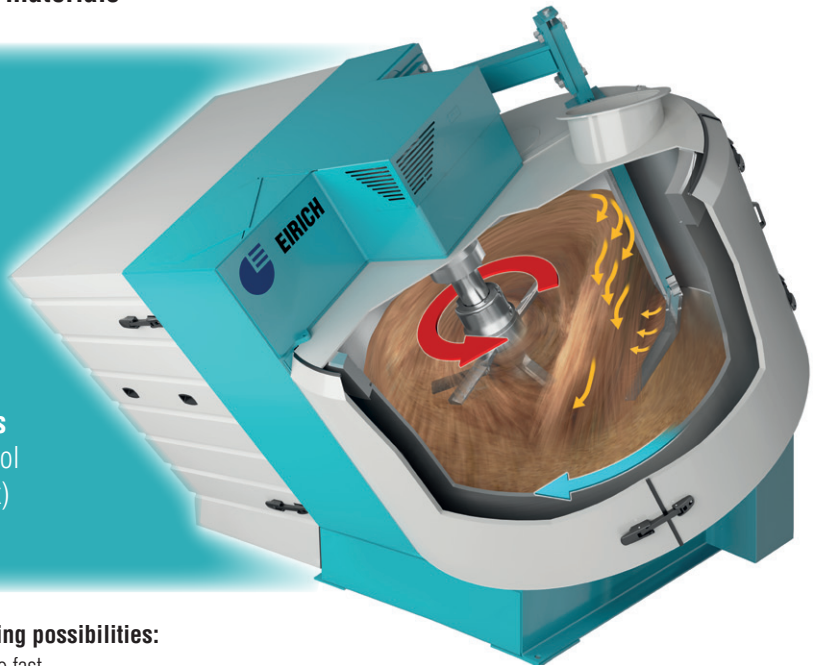
### Variable speed tool

slow to fast

for mixing, kneading, homogenizing

### Separation between material transport and the mixing process

This allows the speed of the mixing tool (and thus the power input into the mix) to be varied within wide limits.



### This working principle offers the following possibilities:

- The mixing tool can be varied from slow to fast
- The input of mixing energy into the mix can thus be controlled efficiently
- Solid and liquid components are mixed in easily and quickly
- Binders are optimally distributed, therefore often smaller amounts need to be added
- Optimal separation of agglomerates and fibers
- Difficult additives (such as coloring pigments or graphite) are also mixed in without any problems at higher speeds
- It is possible to mix in breakable lightweight aggregates at slower speeds
- No product-contacting shaft passages that are susceptible to wear
- For machine sizes ranging from 1 to 900 liters, it is possible to retract the mixing tool from the mixer. The mixing pan is easily accessible.

### Other advantages:

- No dead zones in the mixer
- Short process times
- Only 1 mixing tool for mixer sizes from 1 liter up to 3,000 liters
- Cooling in the mixer is possible, if required to a precision of within +/- 1 K
- Resin and hardener are added directly during the mixing process
- Fewer mixing tools which run close to the bottom or the wall are needed with this design resulting in far less wear



**Top-name manufacturers around the world work with EIRICH mixing technology.  
We would be glad to provide references on request. EIRICH is a research partner for universities.  
Put us to the test. We look forward to telling you more.**

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