

Mixing Technology for friction lining mixes and sealing compounds



EIRICH

Preparation of dry mixes, wet mixes and granules

EVACTHERM®-process under ambient pressure or under subatmospheric pressure, with explosion protection
Mixing, granulating, drying, cooling in one unit



The unique working principle

Rotating mixing pan
for material transport

Variable speed mixing tool, slow to fast
for mixing, kneading, granulating

The effect
The separation between material transport and mixing process allows the speed of the tool (and thus the power input into the mix) to be varied within wide limits.

This working principle offers the following options:

- The mixing tool can be run variably, slow to fast
- The input of mixing energy into the mix can thus be controlled efficiently
- High tool speeds allow
 - agglomerates to be disintegrated perfectly
 - fibers to be disintegrated optimally
 - binders to be admixed well
 - fillers to be distributed evenly
- Medium tool speeds allow high-quality mixes to be produced
- Low tool speeds allow nondestructive admixing of delicate substances (e.g. mineral fibers)
- The mixer is suitable for mixing, granulating and kneading

Other advantages:

- No dead zones in the mixer
- Short process times
- No product-contacting shaft passages
- Preparation of dry and wet mixes in the same mixing machine

- Optimal separation of agglomerates and opening of fibers without choppers
- Only 1 rotor tool for mixer sizes from 1 liter up to 3000 liters
- A separate dryer is unnecessary in the EVACTHERM® process
 - Aqueous systems or organic solvents can be used
 - Advantageous, very efficient convection drying
 - Temperature profile can be specified
 - No product overheating at hot machine parts
 - Residual moisture can be set to < 0.5 %
 - Mixing, drying, granulating, cooling in 1 unit
 - Closed, compact system

Eirich customers tell from experience:

- No step-by-step raw material addition necessary
- Optimal separation of synthetic, metal or mineral fibers
- Permanently homogeneous reproducible mixes of high quality

Top-name manufacturers around the world work with Eirich mixing technology.
We would be glad to provide references on request. Eirich is a reserach partner for universities.
Put us to the test. We would be glad to tell you more.