

This product was developed by VTA Group R&D.

Ultrasound treatment using the VTA mudinator® can change the structure of the sludge thereby improving the effect of the polymer.

- The sludge is treated with ultrasound just before the polymer is added.
- Changing the structure of the sludge produces a better charge balance with the subsequent polymer.
- Optimized energy use → no disintegration takes place
- The result is a shear stable-stable floc → better dewatering.

IMPROVED DEWATERING

- dewater result is increased (up to 5 percentage points)
- improved dewatering due to release of interstitial water



REDUCED POLYMER CONSUMPTION

- polymer requirement is reduced significantly
- optimisation in the addition of conditioning agents



COST REDUCTION

- lower costs due to significant reduction of the volume of sludge requiring disposal



REDUCED BACKCHARGE

- backcharge on the plant ecosystem is reduced in combination with VTA Biocitran®



RECOMMENDED COMBINATION

VTA MUDINATOR® & VTA BIOCITRAN®

Introducing VTA Biocitran® into digested sludge using ultrasound (prior the polymer is added) produces synergy effects during the ultrasound treatment – allowing more effective dewatering of the digested sludge and even reducing polymer consumption.