

# Product Presentation Paper

## FUNDAMIX® for Filteraid and Suspension Tanks

The FUNDAMIX® can be used for mixing in Pre-coat, Body-Feed and Suspension Tanks in Filtration plants and has the following advantages compared to rotating agitators :

- No baffles required**
- No rotating parts = low maintenance**
- High wear resistance with abrasive solids**
- Most efficient mixing at low energy consumption**
- High chemical resistance against corrosive liquids**
- Membrane seal as economic solution for closed systems**
- Longer shaft which allows to use tanks with a smaller diameter and foot print**

The standard configuration for such applications is mixer plate type B.

The distance of the mixer plate from the base of the tank should be equal to the diameter of the mixer plate.

For body-feed tanks, the mixer is equipped with two plates. The lower plate is positioned at a distance of one diameter and the upper plate at a distance of two times the plate diameter from the base. This allows the solids to be re-suspended even after a power failure of some hours.

Tank bases should be preferably torispherical.



**FUNDABAC® Filter Feed Tank with FM-3+**

### Tank volumes, proportions and filter aid concentration as a rule of thumb

FUNDAMIX® Type	FM-2	FM-3	FM-3+	FM-4	FM-4+
Standard mixer plate diameter (mm)	145	215	300	395	475

#### Precoat with Diatomaceous Earth, Perlite or Cellulose at 1 - 10 g/L

Tank volume m3	0.5	1.5	3	10	18
Suggested tank diameter mm	700	1100	1400	2000	2400
Suggested tank height mm	1300	1600	2000	3200	4000

#### Body feed with Diatomaceous Earth at 10%, Perlite at 5% or Cellulose at 5% (Mixer equipped with two plates)

Tank volume m3	0.3	1	2	7	12
Suggested tank diameter mm	600	1000	1200	1800	2200
Suggested tank height mm	1100	1500	1800	2800	3300

#### Suspension with < 5 % of not fast settling solids (< 1 cm/sec.)

Tank volume m3	0.3	1	2	7	12
Suggested tank diameter mm	600	1000	1200	1800	2200
Suggested tank height mm	1100	1500	1800	2800	3300