



Flocculent Make-up - “ Conventional “

“Affordable solutions to automated polymer preparation “

APPLICATION:

The “ Conventional “ Polymer units utilize the conventional methods of flock preparation. Dry flock is added to a mixing tank via a screw feeder and transferred to a dosing tank on demand. This system is still highly efficient and in demand in applications that needs a long hydration and sufficient storage time.

BENEFITS:

- Fully Automated.
- Very low operational costs.
- Limited maintainable items.
- Accurately sized components.
- Maximum efficiency of polymer.
- Hydration times of 3 ½ hours min.
- Flexible concentration parameters.
- Low transport and installation costs.
- Short and prompt commissioning times.
- In-house engineering and manufacturing.
- Compatible to powder polymer and liquid latex.
- No excessive energy or shearing during make-up.
- User friendly faultfinding and operational manual.
- Standard units from 2 kg/Hr to 20kg/Hr. to choose from.
- Easy to change configuration and set-up parameters.

FEATURES:

- Pre – Engineered unit.
- Robust steel construction.
- Stainless steel screw feeder.
- Correctly sized stirrer and pumps.
- Positive displacement dosing pump.
- Interlock protection for all critical components.
- Minimum of IP55 protection on all components.
- Conversion between Liquid and Powder polymers possible.

OPERATION:

1. Low level in dosing tank initialises the make-up cycle.
2. Correct amount of polymer is added to the make-up tank.
3. Flocculent is agitated to ensure adequate mixing.
4. Prepared batch is pumped to the dosing tank on next cycle.
5. Based on plant demand flocculent is pumped to the process.

REFERENCES:

1. GREENSIDE COLLERIES
2. MIDDELBURG MINES
3. OUTUKUMPU SOUTH AFRICA
4. KHUMBA (ZINCOR / THABAZIMBI / GROOTE GELUK)

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