

matec[®]
America

CWR

Concrete Water Recycling
for readymix washout

**SAVING, RECOVERING
& RECYCLING**

Readymix Washout Systems

The washout system is designed to recover the saleable aggregate, recycle the water and reduce the concrete washout waste by 80%.

WORKING CYCLE

The mixers/trucks are washed and the residue is discharged into the screw separator or the dewatering screen.

The screw separator (A), or the dewatering screen, recovers washed material.

The recovered material is ready to be reused.

The dirty water is stored in an external tank (B) ready to be filtered.

The dirty water is agitated in the tank (B).

The dirty water is pumped directly into the filter press (D) by an HPT pump (C), without adding flocculant and without being clarified.

The filter press (D) filters the water by retaining all solids, returning completely clean water ready to be reused in the production cycle (E).

The filter press produces dry mud cakes (max 20% of residual moisture) completing more than 5 cycles per hour and reducing sludge volume by 80%.



- A - Screw separator
- B - Waste water tank
- C - Pump
- D - Filterpress
- E - Clean water tank

CONCRETE RECOVERY UNIT

Concrete recovery unit

MATEC, through its CWR plants, can recover concrete at the end of its working cycle. We offer two options for the water treatment before that the filtration and clarification process is carried out by the filter press:

SCREW SEPARATOR

The screw separator is used to separate aggregates, which will be washed during this process, from water, which still contains the finer particles and is ready to be cleaned by the filter press.

Recovered aggregates are piled up at one end of the screw separator, ready to be reused in the concrete production cycle.



DEWATERING SCREEN

As well as separating water from washed aggregates, the dewatering screen selects the washed materials, depending on the installed number of meshes and its holes' size and allowing concrete producers to use precise mixtures.

The dewatering screen is placed over a tank, where the water falls, ready to be treated by the filter press.

OPTIONAL ACCESSORIES

- Submersible pump for washwater feeding;
- Submersible pump for hopper feeding;
- Electroagitators;
- Conveyor belt.



*perfectly dried mud cake
from a Matec Readymix Plant*

BENEFITS OF MATEC SYSTEM

- No need for settlement pits, costly rehandling and crushing of waste material
- Recover, sort and recycle aggregate lost in the waste material
- Recycle and reuse up to 95% water in the process
- Reduces sludge volume by 80% by producing low moisture silt cakes
- Eco-friendly, low maintenance, closed loop automated system
- Flocculant not required

Matec America is proud to present its plant for the READYMIX WASHOUT - save your money, recover and recycle the water with Matec BWR plant.

- From 2 to 200 trucks and mixers
- Screw separator or dewatering screen to recover material
- 200 installations worldwide

For more information visit our website www.matecamerica.com or call 270-841-9180



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