W&H Product E-Catalogue

W&H WALLCORP SDN. BHD.

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W&H WALLCORP
SDN. BHD
(679118-A)

W&H A-plas
Mortar Additive

W&H A-plas is a powder additive for better dispersing of Portland cement into plastering & bricklaying cement mortar. W&H A-plas is made of high polymer polymerization cellulose, when mixed with water it raises the water molecules, retains water required for hydration and enhance the density of the mortar. With W&H A-plas, can save time and labour while getting better quality mortar and plaster.

Benefits

- Increase strength & Bond
- Improves the workability
- Better-hydrated effect
- Reduce cost
- Keep Construction Site Clean
- Easy Stock Check
- Reduce Shrinkage cracks

Benefits

W&H A-plas Mortar Additive

APPLICATIONS:

Standard Mixing procedure:

1. Water	30 liter (Normal Plaster Pail)
2. A-Plas	100g
3. Wallcrete/OPC	50kg
4. Fine Sand	250kg (25-35 Scopes)

Note : Homogerieous Mix shall be obtained after 5 minutes.
: Coarse sand or contain excessive clay component shall not be used.

The information is only to give a general guide line for the product and not possible to give a specific instruction for various site condition or to control application

TECHNICAL DATA:

Colour	Brown
Cement	Wallcrete / OPC compatibility
Additive	High polymer polymerization cellulose water base
Fire Risk	Does not spread or support fire
Toxicity	Non-toxic
Safety precaution	Wash with plenty of water if contacted eye treatment immediately
Packing	100g per packed

COMPRESSIVE STRENGTH FOR CONCRETE CUBES

Submittor by : W & H WALLCORP SDN. BHD.
No. of Specimen : 5 nos
Size of Specimen : 50mm x 50mm x 50mm
Testing Date : 08.04.2005
Job no./Ref. no. : J20055040402 / (SQAS/ CBMT/T.REC/CSL/02)

Specimen Reference	Compressive Load (kN)	Compressive Strength (MN/m^2)
1	29.8	12.0
2	28.9	11.5
3	30.6	12.0
4	29.4	12.0
5	31.4	12.5
	AVERAGE	12.0

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TILE
W&H
mate

Increase Strong Adhesion and High-Strength ■

Excellent Hydration ■

Improves the Workability ■

Cost Saving ■

Easy Stock Control ■

Major components:

- High molecular weight cellulose, dispersant, other auxiliary additives.

Product Characteristics :

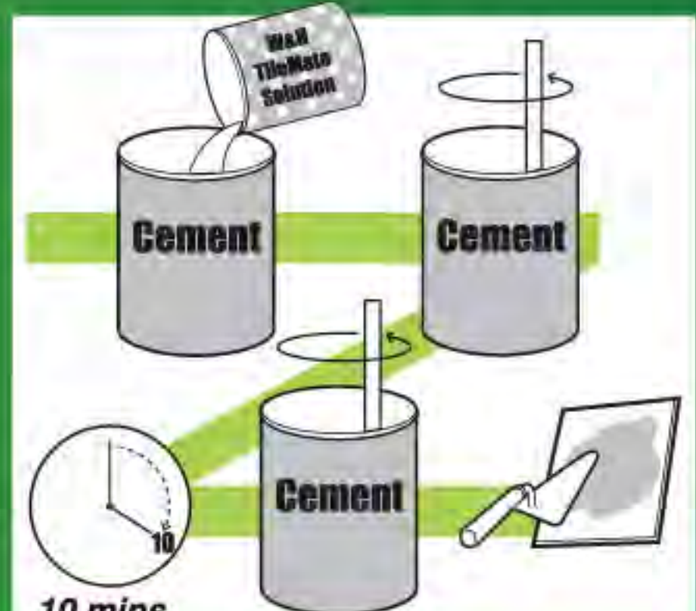
- Excellent hydrating properties. Cement can only gradually harden after being mixed with water; by adding ***W&H TILEMATE*** with extra hydrating power, cement will possess sufficient moisture to cure completely. This enables strong adhesion of laid tiles and prevents tiles from coming off.
- Longer working time enables works to progress at a reasonable pace. Longer working time allows error adjustments and tile alignment.
- Better heat tolerance. Three types of components are used in the tiling of outer walls (i.e.: substrate, latex mortar, and tiles), therefore the expansion coefficients of the three different materials need to be considered. At high temperatures, the expansion of the tiles on the surfaces is different from the latex mortar or the substrate; this creates stress in the middle layer and causes loss of adhesiveness. ***W&H TILEMATE*** provides sufficient tenacity that enables the stress to be fully distributed, thus prevents loss of adhesiveness.
- Newly poured concrete shrinks when hardening, this causes stress in the latex mortar and results in tiles falling off. By using ***W&H TILEMATE*** with tenacity that absorbs the stress from the shrinkage, tile bonding can be enhanced.
- Tiles and latex mortar bond on the basis of the infiltration of mortar into capillary pores on the back of the tiles. Advanced tile manufacturing technology has reduced the number of capillary pores at the back of the tiles and lowered the water absorption; as such, the bonding ability is significantly reduced. By using ***W&H TILEMATE***, latex mortar will have better bonding power, and thus tile adhesion is enhanced.

Caution:

- When preparing ***W&H TILEMATE*** solution, the water is to be stirred continuously while ***W&H TILEMATE*** is slowly added. Lumps will be formed if ***W&H TILEMATE*** is added too quickly or too much at one time.
- The ***W&H TILEMATE*** solution can be kept for three months. It is to be tightly covered to prevent drying.
- The thickness of the mortar mixture of ***W&H TILEMATE*** solution and cement can be adjusted according to individual working needs. The thickness is adjusted by controlling the amount of cement added.
- The above is the standard mode of application. The adhesiveness of the product can be adjusted according to the on-site requirement by increasing or decreasing the amount of water added. (60 - 100kg)

Synopsis Of TileMate:

Add 1 kg of ***W&H TILEMATE*** to 80 kg water and stir well. Leave for 4 hours to allow dissolving to complete before



Add ***W&H TILEMATE*** solution to cement, mix well with power drill mixer. Leave for 10 minutes and mix again, it is now ready for application.

Application ratio: 81 kg ***W&H TILEMATE*** solution to 200 kg cement

Elastic

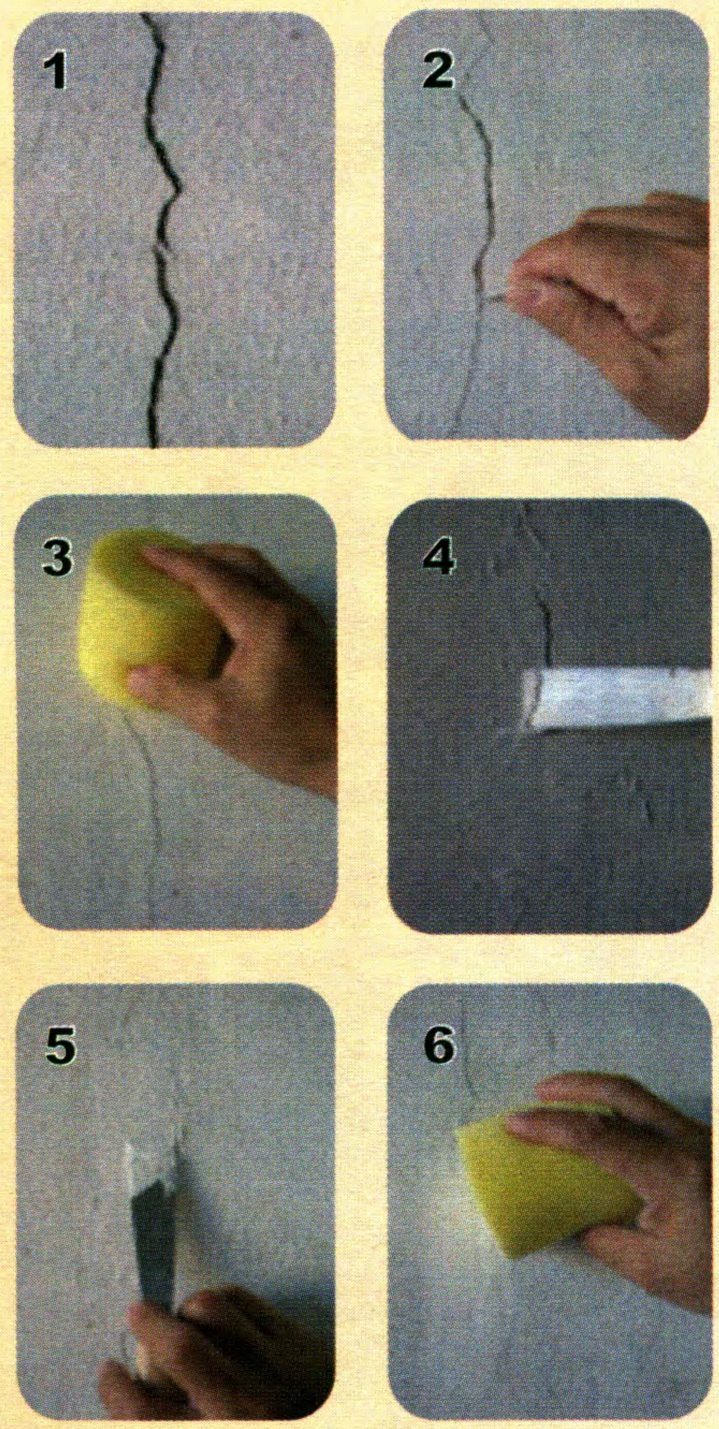
Applicable on Paint

Maintain Durable

CRACK - SEAL

克裂宁

1. Main components: Polymer emulsion, inorganic aggregate filler, dispersing agent.
2. Product characteristics:
   2.1. The product line is non-toxic, non-polluting, and environmentally friendly; it does not pose any safety threats and does not cause any harm to the human body and the environment
   2.2. The product possess elasticity and adhesive properties, it is able to withstand minor oscillation and compression.
   2.3. The product's surface capillary pores look similar to the coating, therefore the patch does not look obvious after being painted over.
3. Scope of application: Movement cracks of wall structures, gaps between wooden doorframes and brick walls, or cracks at joints between beams and brick walls, etc.
4. Application method:
   4.1. Wipe the crack with a wet sponge to ensure there is no dirt to impair adhesion.
   4.2. Use a small spatula to apply the product with stokes across the crack to fill it up, this is followed with strokes along the gap to level the filling.
   4.3. Wipe with a wet sponge to remove any parts that are out of line.
   * Recommendation: If cracks are less than 1.5 mm across, please widen it with a small nail. If shrinking occurs, please re-fill after 3 hours.
5. Note:
   5.1. After cracks in external walls are repaired, please brush on base coat as soon as possible to protect from direct contact with rain.
   5.2. If the crack is too large, fill with CRACK SEAL mixed with cement.
   5.3. If the wall surface is applied with SKING COAT, or if the crack is flaking or is not compact, it can be first brushed with latex diluted with water. When the surface of the infiltration cures, filling can then be done.



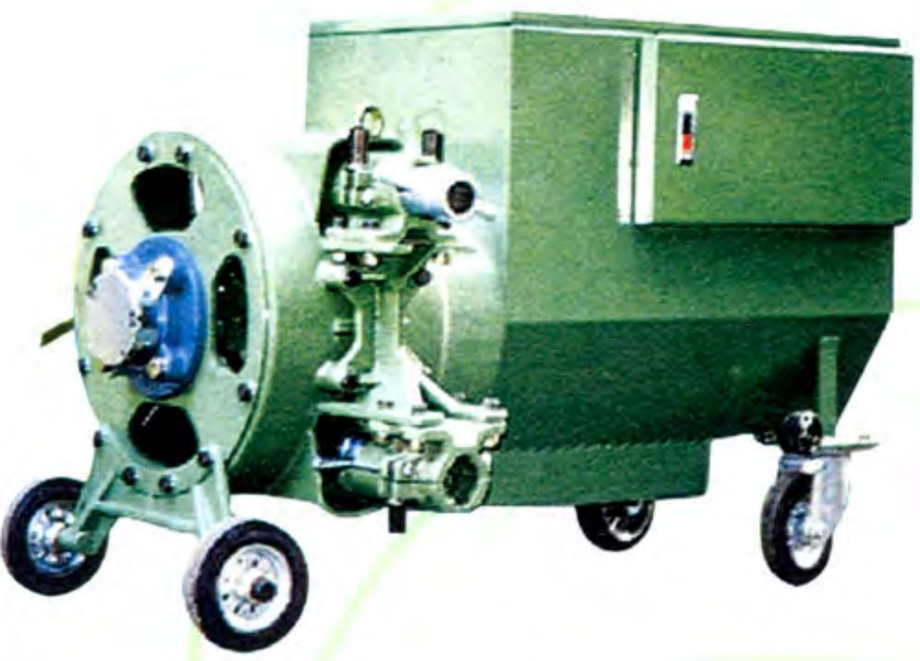
使用方法 ：

i) 以湿海绵抹擦裂缝边，确保无脏物影响粘着。
ii) 以小抹刀横向将粘着料挤入裂缝中，再以抹刀直向抹平。
iii)以湿海绵抹擦凸出线既可。
*建议：如裂缝有1.5mm 以下请以铁钉挖宽。若缩收，请于三小时候再填补一次。

Application method :

i) Clean the working surface with wet sponge,
ii) Pushes Crack seal into crack lines in crosswise direction & wipes over evenly in vertical direction by scraper.
iii) Clean up excessive crack seal with wet sponge.

- If the crack line is narrower than 1.5mm, please dig it wider by nail.
- Crack seal material may shrinks into crack lines , If this happens, please repeat step ii again after 3 hours.



Plastering Main Machine

(Cement Mortar Pump)
(TW-200)
Three phase, 415V~440V

Key Specification / Special Features:

Roller Configuration : Double Extra Roller Compress with 16pcs Roller

- 38 x 63 x 1250 (mm)
- Casting Mould Design In Rolling Extrusion System
- Patented product, MY-123721-A. (Any infringement are prohibited)

Tecnical Data	Description
Dimension	760 x 650 x 1130 x (mm)
Weight	270 kg
Motor	5 HP
Delivery Capability	100 meter (Vertically) and 300 meter (Horizontally)

The Excellent casting mould design in rolling extrusion system allow and enhance more durability of the extruding tube, the inverter controlled system able to prejudice and safety control of the overloading issues. This machine handles a wide range of work and operates smoothly without interruption when feeding cement. the superior cyclodrive design over conventional gear tooth design, with all torque transmitting parts operate in compression, allow for many teeth to share the load and enhance high pumping result with minimize exhaust of Extruding Tube.

Blender Mixer

(TW-M950)
Three phase, 415V~440V

Key Specification / Special Features:

Technical Data	Description
Dimension	1200 x 1000 x 950 x 400 Depth (mm)
Weight	200 kg
Motor	3HP
Capability	250 L
Rotating Speed	45 rpm
Blender Shape	L-Shape Design
Ratio of Mixture (Cement : Sand)	1:3

- Specially designed mixer`s knife could produce even mixing of plaster
- Safety mesh is included for man power for safety purpose and ease on cement mixed in.

Hopper Mixer

(TW-E930)

Three phase, 415V~440V

Key Specification / Special Features:

Technical Data	Description
Dimension	730 x 1070 x 1000 (mm)
Weight	110 kg
Motor	1HP x 3 Pole
Capability	200 L
Rotating Speed	30 rpm
Vibration Motor	1000 kg with 2800 times/mins
Blender Shape	V-Shape Design

- The vibration mount of the round hopper and wire mesh is to filter out the bigger particals from the plaster.

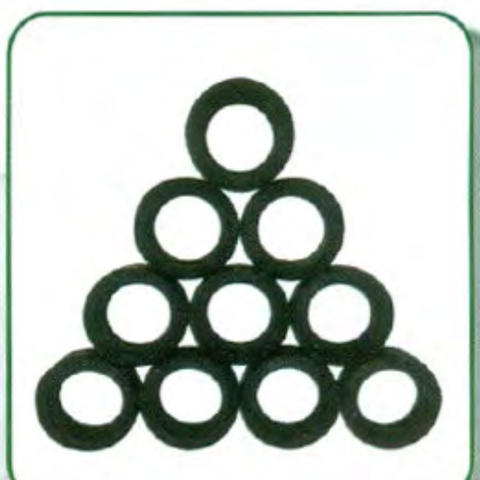
Mechine

Accessories:

10 Meter
Delivery Tube

Hopper
Tube

Retaining
Ring



Rubber
Jacket

Sponge

Extruding
Tube 301

Iron Tube
3m , 2m , 1.5m

Iron Tube
90 degree

Accessories Description

Item	Description	Quantity
Main Machine TW-200	5HP	1 unit
Blender Mixer c/w Cement Stand	3HP / 250 L	1 unit
Hooper Mixer c/w Vibrating Motor and Mesh	1HP / 200 L	1 unit
Hooper Tube	1.5 meter	1 pcs
Retaining Ring c/w Rubber Jacket	1.5 inches	26 pcs
Delivery Tube	10 meter	1 pcs
90 Degree Iron Tube	1.5 inches	4 pcs
3.0 meter Iron Tube	1.5 inches	20 pcs
2.0 meter Iron Tube	1.5 inches	1 pcs
1.5 meter Iron Tube	1.5 inches	1 pcs
Sponge	-	50 pcs
Extruding Tube	For Rental & Purchase Used	1 pcs
	For Purchase New Machine	5 pcs

1 Step Before Fitting the Machine

- Look for suitable place to set the Machine.
- It's good to place wooden planks on the ground before Machine move in.
- Earth wire of the Main Machine must connected (to prevent accident occurs).
- Check power supply is it in good supply.
  (if its low, it will damage motor :- suggest to measure by volt meter)
  * ensure the voltage is not less then 400V oor minimum ampere of 25A.
- Make sure the Mixer Knife is turning in normal condition speed
  (if mixer knife turning at abnormal, mean voltage too low and this will burn the Motor).
- Pour some tapioca starch on the Extrusion Rolling compress Roller to ensure smooth compress processing.
  (do not pour water on roller during the processing to escape from bearing and Extruding Tube damaging)
  * If Mixer Knife turning slow and at abnormal sound, mean voltage too low or inconsistent, this will burn the Motor. Immediate inform Electrical Mechanical to check the main current supply.

2 *Starting Operation Guide*

- *Standby mixing sand, water and packet of cement evenly in Blender Mixer first (suggest 15 scoops of sand for the first mixture to get running smooth).*
- *Make sure the Blender Mixer and Hopper Mixer are turning in a clockwise direction.*
- *Pour plaster lime 10kg/bag or 8liters of water into Hopper Mixer.*
  Start delivery the water then stop delivery immediately before water empty to prevent air suck in.
- *Pour plaster lime 10kg/bag or 8liters of concentrated Cement with water mixture into Hopper Mixer and delivery until empty.*
- *Stop the delivery first by switch off the Main Machine.*
  Flow down the first Mixture to Hopper Mixer and do not start delivery first.
- *Turn on the vibrating motor of the Hopper Mixer. Allow ready Mixed plaster to flow down until.*
- *full, Don`t start delivery first, standby one more mixture of Cement on Blender Mixer then start deliver (Make sure the Hopper Mixer is always filled up with plaster to prevent air to suck in. If air suck in, this may causes a Choke).*
- *Increase the speed if the delivery process is smooth.*

3 *Stopage During Long Breaks or Power Supply Break Down Guide*

- *Disconnect the Iron Tube and the Extruding Tube.*
- *Clean all the Cement inside of the Iron Tube and Extruding Tube.*
- *Repeat the cleaning procedure (If long break not more than 30mins, turn Main Machine switch to reverse and countdown to 10second then switch back forward and start delivery again).*

4 *Jamming Guide*

- *Stop the delivery, (extract the plaster back by turn Main Machine switch to reverse and countdown to 10 second then switch back forward and start delivery again).*
- **Check what is the cause of the jamming. Normally, its happen on below issues :-**
  - *Choking cause by the jammed at 10m Delivery Tube.*
    (use Hammer to knock on the harden Plaster in the Tube before digging it out).
  - *Chocking cause by Iron Tube, it could be the Rubber Ring of the retaining ring has been torn(replace it with a new one).*
  - *Chocking cause by Hopper Tube. It could be the inconsistent delivery or uneven mixing (turn main Machine switch to anti-clockwise to return all the Cement several times until smooth delivery again).*

5 *Cleaning Procedures*

- *Disconnect power supply of Blender Mixer and push all the remaining Mixture to Hopper Mixer until empty.*
- *Take out the Blender Mixer knife and wash thoroughly.*
- *Let all the Mixture flow through the Hopper Mixer.*
- *Stop the delivery and disconnect the Hopper Mixer, take out the Hopper Mixer Knife and wash it.*
- *Dig out all the extra mixture from Hopper Mixer then start machine again to pump up all the remaining Cement. After that stop Machine again.*
- *Pour one pack of Plaster Lime and start Machine to pump up follow by block the Hopper output with Sponge while Plaster lime almost finish (to prevent air suck in).*
- *Stop the Main Machine again, clean off all the Blender and Hopper Mixer accessories. Clean thoroughly to prevent the leftover Mixture from causing rust in the long term.*
- *Standby 5 pieces of Sponge will be pump up follow one by one internal between 10 second each).*
- *Make sure all the Sponges flow out from the end of the Iron Tube (this is to clean all the remaining Mixture along the Iron Tube)*
- *If the Sponges never flow out. It must be stuck either one of the Iron Tube that rust start remained. (disconnect few Iron Tube to check where the Sponges stuck).*
- *Everyday after work must practice to clean all the items throughly to maintain Machine in good condition and run smoothly.*

6 *Fixing the Extruding Tube*

- Apply some powder onto the external surface of the Extruding Tube.
- Fix the tube from the bottom to top into the Extruding Rolling.
- Gauze the Extruding Tube by manually controlling the speed.
- Tighten the upper connection first then to lower connection.
- Make sure the groove is fully filed and control the Extruding Tube direction on the positioning.
- Check the compressing Roller weekly (off power supply before checking).
- Turn the Extruding Tube upside down surface twice a week to get longer life of the Extruding Tube for cost saving purpose.

7 *Basic Defects Rectifying*

- **Main Machine**
  - *Compressing Roller not moving/ unable to deliver/ bearing defective/ protective wheel not moving or dificult to rotate/ control panel shortage of Oil/ Gear defective and centre shaft bent.*
- **Blender Mixer**
  - Motor defective/ Blender Mixer`s Knife/ heavy knock on Mixer`s Knife/ Gear Box Oil leakege/ Main Switch short circuit or Wire torn causing leakage.
- **Hopper Mixer**
  - Motor defective/ light vibrating cause by loose screws or heavy knock on Hopper Mixer`s Knife.

Operation Manual

Differentiation and Technical Specification of TCT Plastering Machine

Why are we so Special and Different ?

Item	Specification	The C Trading			Remarks
1	Products	Taiwan imported			Patented
2	Roller configuration	Double extra roller compress with 16 pcs roller			Smooth operation
3	Casting mould design in rolling extrusion system	Patented dimension : 38x63x1250mm (MY 123721-A)			Enhance durability of extruding Tube with minimize exhaustion. consistency and high pumping result in delivery
4	Delivery distance	Vertical -100m/Horizontal - 300m			
5	Replacement	Separate units			Easy for maintenance & repair. Time saving
6	Gear tooths design	Cyclodrive design			With all torque transmitting parts operate in compression to share the load
7	Machine control system	Inverter control system			Able to prejudice and safety control of the overloading issues
8	Model	TW-200	TW-M950	TW-E930	
	Dimension (mm)	760x650 x1130	1200x1000 x950	730x1070 x1000	
	Weight (kg)	270	200	110	Total weight : 480kg
	Voltage (v)	415~440	415~440	415~440	
	Motor	5 HP	3 HP	1 HP	
	Capacity	200 liters			Capacity for a good mixture of ratio 1:2:3
	Plasterer supply	Minimum 15 plasterer			Depend on speed
		Hour	Day (8 hours)		
9	Maximum output	3~7 m3	24~56 m3		Depend on speed & distance
10	Sand usage	1.2 sq.m	9.6 sq.m		Depend on manpower
11	Cement usage	12 packs	96 packs		Depend on manpower
13	Proven result	36 Floor – Combination of 2 units (Beijing Construction in Mont Kiara)			Extruding tube monthly usage max. 3 nos.
14	Proven result	18 Floor – 1 unit			Extruding tube monthly usage max. 1 nos.

Process Demo

3m Iron Tube

90 Degree Iron Tube

Extruding Tube

Sponge

Delivery Tube

Retaining Ring

Hopper Tube

Rubber Jacket

Cement

Mortar Additive

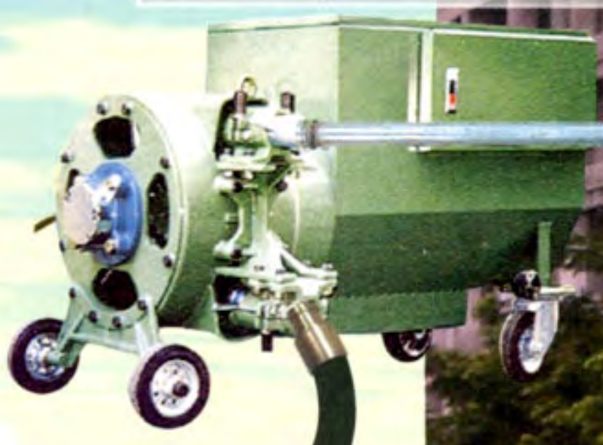
Sand

Water

Blender Mixer
(TW-M950)

Hooper Mixer
(TW-E930)

Plastering Main Machine
Cement Mortar Pump
(TW-200)



Hopper Tube