

## AddMix® Concept

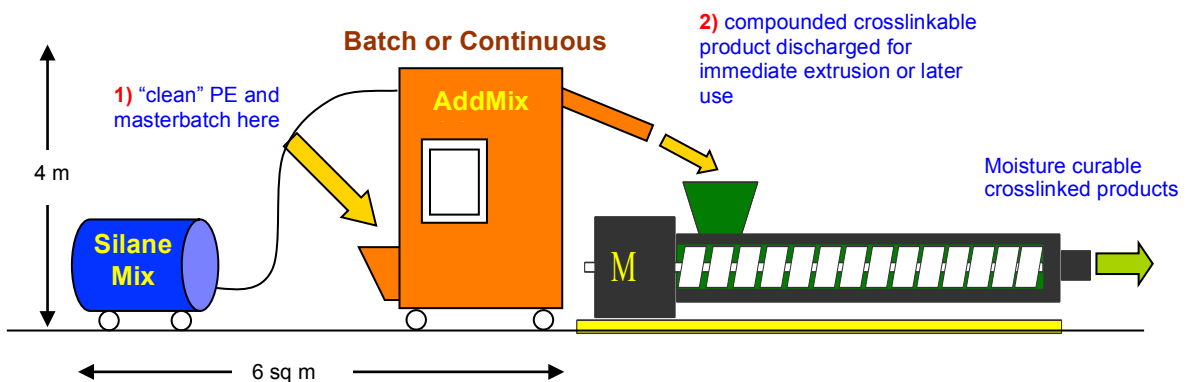
The **AddMix®** system provides a cost effective and efficient process to manufacture quality crosslinkable polyethylene compounds. The compounds can be either fed directly into the extruder to produce crosslinkable products or packed for storage or resale.

**AddMix®** system is a refinement of a proven technology that has been used by our associates and Licensees for over 30 years to produce over 300,000 mt of compound. It encompasses the entire process from the de-dusting and de-streaming of the incoming polyethylene to the compounding and packing of the final compound.

Cost savings is one of the obvious benefits of the **AddMix®** system. An equally important benefit is the control a cable company can exercise over its supply of raw materials, the properties of its finished products and as well its ability to develop targeted compounds and other in-house products.

The **AddMix®** system offers the end user a choice of having a “**batch**” or “**continuous**” process for their in-house compounding. The “**batch**” system allows the cable company the flexibility of centrally locating the compounding line while supplying extruders situated some distance away from the compounding line via a moveable hopper. This system also allows a cable company to manufacture and bag compounds for resale (capacity of a typical batch unit ranges from 250-300mts/mth, if run continuously). The “**continuous**” system utilizes a proprietary and patented on line super charger to continuously feed the extruder with compounded material. Such a system, almost always uses a dedicated extruder during extrusion. However, the equipment is portable and can be moved from one extruder to another without the need for complicated and laborious dismantling.

## AddMix® layout



## **Key features and benefits of AddMix® system**

### **1. Low capital investment and reduced variable cost**

- a. **AddMix®** system will significantly reduce material cost by making crosslinkable compound in-house. Savings can be realized through the elimination of packing cost, factory expenses, transportation charges, supplier's margins and using in house production staff.
- b. **AddMix®** system consumes very little electricity. As a general rule, it requires less than 40 kw/hr or in dollar terms, less than USD3 to make 1 mt of compound.
- c. **AddMix®** system is design for easy operation and low maintenance. Hence, no additional manpower is required to operate the **AddMix®** system. Existing extrusion personnel on the production floor can be trained to handle the **AddMix®** system while also overseeing the extrusion operations.
- d. **AddMix®** is a **GREEN** system, with low electricity inputs and zero raw material waste.

### **2. Designed by experts**

- a. **AddMix®** system is constructed of high quality components sourced from reputable manufacturers.
- b. **AddMix®** system was developed with inputs from several experts, including the former production director of a large cable company with in-house compounding.
- c. **AddMix®** system will be assembled by our experience technical service staff at your factory premises. This eliminates the need for your production staff to be sent overseas for training
- d. **AddMix®** system is designed to be idiot proof so that staff training can be accomplished within in 3 hours.

### **3. Superior product quality**

- a. **AddMix®** system administers an accurate amount of liquid silane using a special dosing system. Nitrogen blanketing is a standard feature due to safety and contamination considerations.
- b. **AddMix®** system incorporates all the refinements of a proven technology developed, over 30 years ago by a company, with an internationally recognizable brand name and the experience of producing over 300,000 mts of compounds
- c. **AddMix®** system requires little need for human input during the production process, thereby reducing the likelihood of human error.

- d. **AddMix®** system incorporates a process that removes contamination and undesirable shaped polymers, such as fines and streamers, thus helping to ensure the manufacturing of consistency quality products.
- e. **AddMix®** system ensures “fresh” compounds are used at all times. Most of the raw materials have unlimited shelf life.

#### 4. **Process flexibility**

- a. **AddMix®** system allows the users to compound in-house when required. There is no need to stock large quantity of crosslinkable compounds, enabling easier inventory and logistics management.
- b. **AddMix®** system requires a short processing time, typically between 3-4 minutes. This allows the cable manufacturers to top up and change product grades in a short period of time with very little wastage.
- c. **AddMix®** system allows users the flexibility to use a suitable locally available polyethylene, which may result in significant cost savings.
- d. **AddMix®** system requires for its operations a very small space and normal height requirements. It is design to accommodate most existing production floors, without the need for production layout modification.
- e. **AddMix®** system allows the cable company the flexibility of packing compounded material and storing the packed products for use at a later date. This creates the opportunity for these companies to resell some of these packed products to neighbouring cable companies. A small batch unit has a capacity of 100mts/mth.

#### 5. **Enhanced technical competence of end user**

The cable company's ability to develop new products will increase and enhanced with the purchase of the **AddMix®** system. The cable company will be able to use the services of our experts to assist in their development efforts.

#### 6. **Control on supplies:**

Having an in-house compounding line enables a cable company to seek better prices for their finished compound, if required. These companies cannot be held hostage to unreasonable price increases and stock out due to raw material shortages.