



C80

POLY-MIX

USER GUIDE

IT IS A MIXER PUMP THAT MIXES AND PREPARES OUR POLYURETHANE DOMING RESIN FOR LABELS TO BE APPLIED TO LABELS WITH OUR MANUAL OR AUTOMATIC DOMING DISPENSERS

Table of Contents



• Safety directions	Pag 2
• General indications about the unit	Pag 3
• Starting of the unit	Pag 3
• Handling	Pag 3
• Technical features	Pag 4
• Instructions	Pag 5
• Poliurethan data	Pag 6
• Accessories availables	Pag 7
• How to make labels for doming	Pag 7
• Maintenance	Pag 8
• Manufacture limited guarantee	Pag 8
• Declaration of conformity	Pag 8

TO ENJOY FULLY ALL THE FEATURES AND FUNCTIONS OF YOUR PRODUCT, PLEASE READ THIS OWNER MANUAL CAREFULLY AND COMPLETELY



Safety directions

ATTENTION!: With the use of electric tools and to avoid contacts with electric power, injures and danger of fire, the following safety directions must always be observed.

Read and observe these indications before using the unit and keep these directions with care.

1. **Keep your working place in order:** Disorder on the working place may cause accidents.
2. **Environmental conditions:** Don't expose electric tools to the rain. Don't use electric tools in wet or damp environments. Be sure to provide a good illumination. Don't use electric tools near inflammable liquids or gas.
3. **Avoid electrification:** Avoid contacts with grounded objects, for ex. Tubes, radiators, refrigerators.
4. **Keep children away:** Don't let third persons touch the tool or the cable, keep them far from the working place.
5. **Put your tools in a safe place:** Put your tool in a dry and safe place in order to not be accessible by children.
6. **Don't overload your tool:** You'll work better and safer using the rating plate's power.
7. **Choice of the tool:** Don't use low power tools or accessories requiring high power. Don't use tools for work and purpose for which they haven't been designed.
8. **Work-clothes:** During working, always dress properly, avoiding the use of loose-fitting clothes or too large sleeves.
9. **Use safety glasses:** Always use protective glasses. If the work produces dust, use a mask.
10. **Pay attention to the cable:** Don't lift the tool by the cable and don't use it to pull off the plug from the outlet. Protect the cable from high temperatures, oils, edges.
11. **Fasten the piece to be worked:** Be sure that the piece to be worked is fastened and fixed. During working, always keep the tool with both hands.
12. **Avoid unsafe positions:** Be sure to stay in a safe position, in order to maintain a good balance.
13. **Take care of your tools:** In order to work in a safe way, sharpen and clean your tools, follow the prescriptions concerning maintenance and replacement of worn tools. Often control the cable and, in case of damages, have qualified people change it. Regularly check the extension cables and change them if they are damaged; handgrips and controls must be kept dry and clean.
14. **Changing of working tools:** Before repairing or replacing the tools, (for example saw-blades, points or worn tools), always unplug the unit.
15. **Don't leave service keys on the unit:** Before using the tool be sure that service keys are taken away.
16. **Avoid accidental startings:** Before you put the plug in the power outlet be always sure that the switch is off.
17. **Don't use the unit in open places:** The unit must be used indoor and in well lighted places.
18. **Always pay attention while working:** While working, don't be distracted. A lack of attention can cause accidents. In presence of other people in the working place, we recommend to maintain a suitable distance from the operator and the unit.
19. **Always check that the tool is not damaged:** Before using the unit, check with attention its efficiency and the perfect working of safety devices and if necessary of damaged parts. Check the efficiency of movable parts, that there are no clamped parts, no broken parts, that all other parts are correctly assembled and that all conditions that could influence the correct efficiency of the unit are optimal. Safety devices or damaged parts must be repaired or replaced by a Technical Assistance Service if not otherwise indicated in the use and maintenance handbook.
20. **Attention!:** For your safety use only tools or accessories indicated in the direction for use or offered in proper catalogues. The use of different accessories or tools, or not indicated in the direction for use or in the catalogue, may cause accidents.
21. **Have qualified personnel replace the tools:** This electric unit comply with the safety directions in force. The repair of electric tools must be done only by authorised assistance service.

KEEP THESE DIRECTIONS WITH CARE

General indications about the unit

THIS MIXER IS FORMED BY A POWDER PAINTED PLATE HOUSING TO WHICH ARE FIXED THE FOLLOWING PRINCIPAL GROUPS:

- VACUUM PUMP: IT'S AN OIL FREE PISTON PUMP THAT DOESN'T NEED MAINTENANCE
- GEARMOTOR: IT'S A BELT AND TOOTHED PULLEY GEARMOTOR; NO MAINTENANCE IS REQUIRED.
- ELECTRIC SYSTEM: IT CONSISTS IN SWITCHES AND PRINTED CIRCUIT
- PNEUMATIC CIRCUIT: IT CONNECTS THE VACUUM PUMP TO THE MIXER MUG.
- EXTERIOR CONTAINER VMA1 PART TO PUT BELOVE THE MUG-TOP VMA5 TO BE USED WITH THE DISPOSABLE CONTAINER VMA2.
- STEEL SPATULA VMA4 : IT'S THE PART MORE INCLINED TO WEAR, IT'S SUGGESTED AFTER THE USE TO CLEAN IT WITH CARE FROM RESIN. INSIDE THE UNIT THERE IS A FILTER THAT PROTECTS THE PUMP FILTERING THE SUCKING AIR.

Starting of the unit

INSTALLATION:

REMOVE THE UNIT FROM THE PACKAGE REMOVING IT FROM THE UPPER OPENING SIDE.
ON RECEIPT OF THE UNIT, CHECK THAT ALL PARTS OF IT ARE SOUND. IF THIS IS NOT THE CASE, CONTACT IMMEDIATELY THE RETAILER.
LAY THE UNIT ON A STABLE PLACE IN A WELL LIT AND DRY PLACE WITH AT LEAST 30 CM FREE ON BOTH SIDES. THE UNIT IS NOW READY TO WORK.
DON'T THROW THE PACKAGE AWAY, BUT KEEP IT FOR FOLLOWING HANDLINGS.

ELECTRIC CONNECTION:

BEFORE CONNECTING THE UNIT BE SURE THAT THE MAINS VOLTAGE INDICATED ON THE DATA PLATE AGREES WITH THE ONE OF THE MAINS AND THAT IS PROVIDED WITH GROUND CABLE.
CONNECT THE CABLE HEAD PLUG OF THE ELECTRIC FLYING CABLE COMING FROM THE UNIT TO THE PROPER OUTLET.

THE SUPPLY CABLE HAS A LENGHT OF 2 M. IN CASE OF USING EXTENTION, BE SURE THAT:

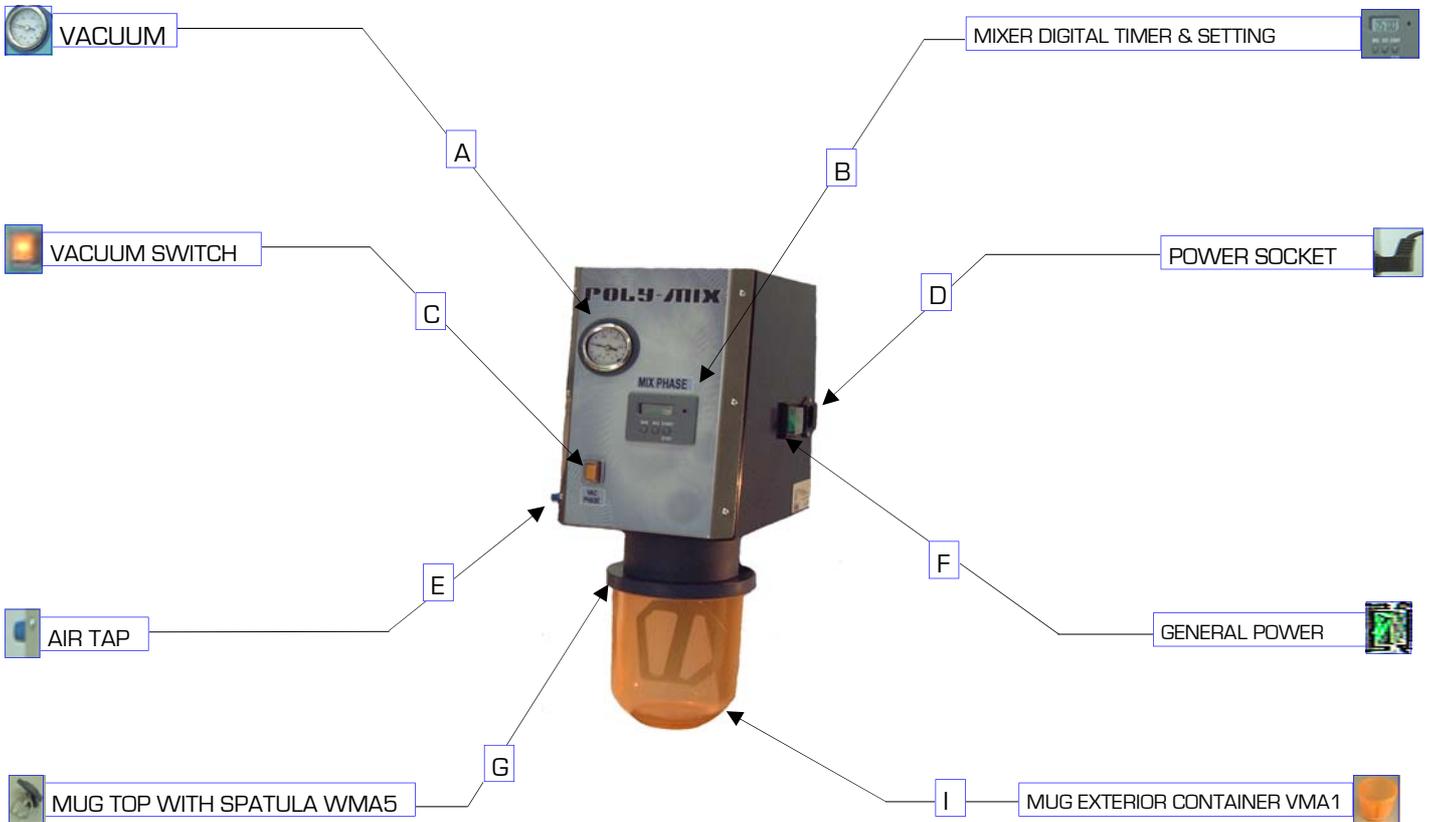
- THE CABLE SECTION FITS WITH ITS LENGTH. ITS SECTION HAS TO BE ALMOST THE SAME AS THE ONE OF THE CONNECTING CABLE.
- THE POSITIONING OF THE CABLE DOESN'T CAUSE DAMAGES.
- THE POINT OF CONNECTION TO THE ELECTRIC POWER SOURCE GUARANTEES THE PRESENCE OF ALL THE NECESSARY PROTECTIONS ACCORDING TO THE REGULATIONS IN FORCE.

Handling

KEEP THE PACKAGE OF THE UNIT THAT WILL BE USEFUL IN CASE YOU'LL HAVE TO MOVE IT TO A DIFFERENT WORKING PLACE. IN THIS CASE, FOLLOW THE OPERATIONS INDICATED BELOW:

- A) SWITCH OFF THE UNIT, DISCONNECT THE ELECTRIC CABLE FROM THE OUTLET AND THAN FROM THE UNIT.
- B) REPLACE THE UNIT AND ITS ACCESSORIES, SEPARATELY, IN THE PACKAGE WITH SOFT AND SHOCKPROOF MATERIAL.
- C) PUT THE USE AND MAINTENANCE HANDBOOK IN THE BOX, THAN FINISH THE PACKAGE AND CLOSE THE BOX.

Technical features



Art. Art. C80 MIXER PUMP	
Power supply	220 V model / 110 V model
Energy Consumption	150 W / 290 W
Absorbed current	-0,8 bar
Gear motor	2 N/m
Digital timed mixing phase	0-99 minuti
Dimension	P. 23 cm - L . 23 cm - A . 62 cm
Weigth	13 Kg

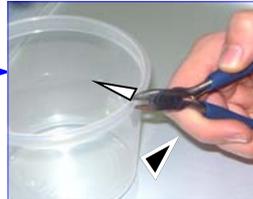
Articles included with the unit and spare part

- 40 X
VMA2 
- 1 X
VMA1 
- 1 X
VMA5 
- 2 X
VMA3 

Instructions - how to use with resin in 16 step

Poliurethans should keep in a room with minimum 20°C. If is not possible you should pre-heat at 30°- 40° for minimum 30 minutes. Use the VMA2 only one time. Before using protect hands and eyes avoiding any contacts with chemicals.

1) Before use Cut about 1 mm of the top edge of the disposable container VMA2.
This operation is very important to avoid that after the mixing phase the VMA2 stay blocked inside the mug exterior container VMA1.



2) Connect the cable head (D) plug of the electric flying cable to the proper socket on the unit.



3) Close the air tap (E)



4) Switch on the general power (F)



5) Set the working time on the digital display as follows:
Mix phase (B) set 5 minutes



6) Place the VMA2 on the balance and weight the two components.
Weight from gr 50 up to gr 400(max).
Less is the ammount of product longer is the working time.
Beginners should start with gr 100



7) Put the VMA2 in the VMA1



8) Put the VMA5 in the VMA1



9) Holding the VMA1 push the bottom Vacuum Switch (C).
This operation start the Vacuum



10) Keep holding the mug VMA1 till the machine get the worth at least -0,2 (it takes 2-3 seconds).



11) Release the mug and Push the bottom start on the Mix phase display (B).
Machine will mix and will get the worth of -0,8. Machine will advise you with an alarm when the resin is mixed and the cycle is completed.



13) When the machine starts beeping the cycle is completed.
Hold the VMA1 and open the air tab (E).



14) Take VMA5 from the VMA1



15) Put the VMA5 in a can holder
You should clean it after few minutes.
To clean it you don't need solvent, you can just use an absorbent paper.



7) Take out the VMA2



16) fill the syringe pouring the mixed resin.
Now you are ready for doming.
If you see some bubbles they will not appear on the label.



Instructions how to use resin: general suggestions

- The cans of resin must be preserved in environments with temperature than at least 22 °Cs. If this is not possible it becomes necessary to preheat the products to 30° - 40° Cs for at least 30 minutes.
- Before beginning the job protect himself/herself/themselves hands and eyes.
- The table for the doming and the ledges have to perfectly be in plain.
- Work and Preserve the products with least temperature of 22°C with inferior damp to 50% (condition of a normal room with a heater).
- The cleaning of the utensils and the accessories used for weighing, to mix and to dose the products is conclusive factor for the good result of the doming.
- Periodically check that the spatula VMA4 of the mixer C80 is correctly positioned, in the case that stirs it is necessary to stare at her/it with the special key in endowment.
- Avoid to make two following mixtures in the same container VMA1: problems can be created on the surface of the resin, what withdrawals, peel of orange and also defective drying. - Check around 10 minutes after the doming that bubbles of air don't stay; in case are present blazes the labels. The blaze has to be rapid and brought closer. - If they had to reappear bubbles of air in a second time these they are entirely imputable to an incompatibility with the used supports or with the adverse conditions of the environment of job. - Wait 24 hours before sending to the customers. Use appropriated silicon no stick papers to overlap the sheets with the resined labels.

Characteristics of mixtures

- RESIN T813 / HARDNER K863: very fluid, good flexibility, very good flow used to dome regular shape adhesive labels.
- RESIN T823 / HARDNER K863: fluid, good flexibility, very good flow used to dome irregular shaped adesive graphics(letters big logos).
- RESIN T825 / HARDNER K865 : fluid, very good flexibility, use for thermo adesive labels .

Ratio of catalysis resin / hardner, for all the products it is 1-1 Example: Resin T823 gr. 100 - Hardner K863 gr.100

- ADDITIVE F510 it increases flexibility if added 5-10% to resin T813 or T825 used for very curved applications only.

Example: Resin T823 gr. 100 aditive F510 gr. 5 - Hardner K863 gr.100

Baking time in the oven (at 35° - 40°): 2 / 3 hours.

Curing time room temperature (at 20-25°): 6/8 hours.

Pot life (100 grs. Resin + 100 grs. hardner to 22° around): 25 / 30 minutes.

Attention: if they are mixed among them greater quantity of resin / hardner or if you work with a room temperature very elevated , the pot life decreases.

Characteristics and advantages with the use of the Oven C20, the bases easy level set up and the others dust free trays.



Regulable bases and superimposable dust free trays that maintains labels dust free reducing waste cost. It allows a easy level set up and a easy fix of the label sheet by using magnetic strip or profiles or by using remount spray adhesive.

Art. LDA9 Dust free superimposable tray it can be used in the oven C20 or with Bases

Art. LDA17 Thermozincate base **cm 82x27x8** with 6 regulable feet It allows easy level set up.

Art. LDA18 Dust free superimposable tray cm 82x27 with 6 feet. Use with LDA17 base

Art. LDA37 Thermozincate base **cm 82x52x8** with 6 regulable feet It allows easy level set up.

Art. LDA38 Dust free superimposable tray cm 82x52 with 10 feet. Use with LDA37 base.



Art. oven fast dry domed labels C20 dedicated to cure domed labels it increase production speed and it reduces waste cost.

It's Equipped with 10 shelves

It's Equipped with adjustable feet for flat results

Alimentation	220 V - 50 Hz monofase
Energy consumption	W 650
Internal dimension	larg. 40 cm X prof. 25 cm x h. 30 cm
External dimension	larg. 46 cm X prof. 28 cm x h. 42 cm
Weigth 10 LDA9 included	Kg. 20

Accessories availables for Poly Mix C80



Art. VMA1 mug exterior container

IT'S A LONG-LIFE DURABLE CONTAINER BECAUSE DURING OPERATIONS THERE IS NOT CONTACT WITH THE RESINS.



Art. VMA2 disposable resin mixing container

IT'S USED FOR WEIGH THE POLYURETHANE AND FOR THE MIX PHASE. IT ALLOWS TO PREPARE FOR DOMING FROM GR. 60(2 Ounce) UP TO GR. 400 (1 Pound) OF POLYURETHANES IN 5 MINUTES. IT'S THE CHEAPPEST DISPOSABLE CONTAINER TO WORK WITH POLYURETHAN RESINS.



Art. VMA3 O-ring joint for mug-top VMA5

IT'S A LONG-LIFE DURABLE JOINT BECAUSE DURING MIXING OPERATIONS THERE IS NOT CONTACT WITH THE RESIN.



Art. VMA4 Steel mix spatula for mug-top VMA5

IT'S A LONG-LIFE DURABLE SPATULA BECAUSE IT IS STEEL MADE EASY TO CLEAN . IT'S BETTER TO CLEAN BEFORE 1 HOUR SO YOU CAN USE ONLY AN ABSORBENT PAPER.



Art. VMA5 Mug-top with spatula

IT'S A LONG-LIFE DURABLE MUG-TOP BECAUSE IT IS MADE IN A EASY TO CLEAN MATERIAL AND ABOVE ALL DURING MIXING OPERATIONS THERE IS NOT CONTACT WITH THE RESINS.

How to make labels for doming

Polyurethane resins are dispensed as a liquid and cure to a crystal clear polyurethane dome. Due to the nature of the liquid resin, following these guidelines will make application more efficient and economical.

Guidelines:

1. Even if our resin are very compatible with inks we suggest you to test each time you change ink, substrates or printers before production runs. Do not use paper as a substrate.
2. We suggest a permanent back adhesive.
3. Making the graphic leave a minimum of 1mm between pieces .Remember especially if you are a beginner working on A4 it's easier than with bigger layout.
4. Kiss cut and weed sheets.
5. Do not cut through release liner.
6. If emboss is necessary, try to keep as low as possible.
7. Round corners where possible.
8. Avoid sharp angles on inside cuts..
9. Use double sided release liner.
10. After peeled the matrix you should pass a flat heavy on the sheet to fix labels down on liner.
11. Best way to fix label sheet on the shelves are using magnets or Remount Spray Adhesive.
12. Use the appropriate resin for the label type [see pag 6].

Periodical maintenance by the operator

ALL THE MAINTENANCE OPERATIONS MUST BE MADE WHEN THE UNIT IS SWITCHED OFF, DISCONNECTED FROM THE MAINS.
 TEST PERIODICALLY THE MAINS SUPPLY CABLE CONDITIONS. IF IT WILL APPEAR DAMAGED, HAVE QUALIFIED PEOPLE CHANGE IT..
 PERIODICALLY TEST THE SMOOTHNESS OF THE ROTATION OF THE SPATULA WITH RESPECT TO THE DISPOSABLE CONTAINER VMA2 . IT MAY HAPPEN THAT THE JOINT VMA3 TENDS TO BECOME HARD FOR THE INFILTRATION OF RESIN, IN THIS CASE REMOVE IT AND SUBSTITUTE IT,
 KEEP CLEAN THE MACHINE ESPECIALLY THE TWO DISPLAY (B) AND (T)

Declaration of conformity

DIRECTIVE 89/392/EEC AND FOLLOWING MODIFICATIONS

EURO DROP SAS
VIA SELLA, 12
20094 CORSICO - (MILANO) / ITALIA

DECLARE UNDER OUR EXCLUSIVE RESPONSIBILITY THAT THE PRODUCT:
 ELECTRIC MIXER POLY-MIX C80

MATR. N°

TO WHICH THIS DECLARATION IS REFERRED IS IN CONFORMITY WITH WHAT IS ESTABLISHED BY THE DIRECTIVES:
 EN50081-1, EN55014, EN50082-1, EN292,
 89/392/EWG MODIFIED, 93/68/EWG and 91/368 EWG and 93/44EWG,
 EMV89/336/EWG MODIFIED 92:31:EWG

CORSICO (Milano)

(Product Eng. office)

Manufacturer's limited guarantee

LIMITED GUARANTEE: EURO DROP SAS GUARANTEES THAT THE MIXER MX01 OPERATED BY ELECTRIC MOTOR IS FREE FROM DEFECTS OF MATERIAL AND PROCESSING FOR ONE YEAR FROM THE PURCHASING DATE. THE GUARANTEE IS VALID ONLY IF THE PRODUCT WAS BOUGHT SOUND FROM **EURO DROP SAS**. THIS GUARANTEE ISN'T VALID IF THE PRODUCT WAS USED IN AN ILLICIT WAY, IF WAS ALTERED, CHANGED OR REPAIRED BY PERSONNEL NOT AUTHORIZED FROM **EURO DROP SAS**.
 IN THE CASE THAT THE PRODUCT SHOWS, IN ONE YEAR FROM THE PURCHASING, DEFECTS OF MATERIAL OR PROCESSING, IT MUST BE SENT TO **EURO DROP SAS** , WITH TRANSPORT EXPENSES PAID, ENCLOSING NAME, ADDRESS, THE PURCHASING DATE'S PROOF AND A SHORT DESCRIPTION OF THE NOTICED DEFECT.
EURO DROP SAS AT ITS DISCRETION WILL CARRY OUT THE REPAIR OR THE CHANGE OF THE DEFECTIVE PRODUCT WITHOUT ANY EXPENSE BY THE PURCHASER. POSSIBLE REPAIRS OR CHANGES ARE GUARANTEED, AS DESCRIBED ABOVE, FOR THE REST OF THE ORIGINAL GUARANTEE TIME. THE GUARANTEE IS LIMITED TO THE REPAIR AND CHANGE OF THE DEFECTIVE PRODUCT.
 (THERE ARE NO OTHER IMPLICIT OR EXPLICIT GUARANTEES. MOREOVER N.A. WILL NOT BE RESPONSIBLE FOR CASUAL, CONSEQUENTIAL OR SPECIAL DAMAGES, FOR COSTS OR EXPENSES FOR REPAIR OR REPLACEMENT AS ABOVE DESCRIBED).