

Title: Method For Coating Key Board

Field of the Invention

This invention relates to a method for coating key board, more particularly, to a method which makes a keyboard more durable, solid and with excellent wearing resistance.

The key board of conventional keyboard of the computer and the office equipment is made from silicone rubber. The silicone rubber has a poor wearing resistance because of its physical property. On the other hand, this silicone rubber provides poor contact feeling to the user.

It is the object of this invention to provide a coating method which coats a layer of PU material to the key board which in turn brings a quality similar to plastic. Besides, the so constructed key board has excellent wear-resistance and contact feeling.

Process for the method according to this invention includes the steps of:

- 1) Preparing and conducting general operation for key board;
- 2) Coating a layer of primer to the keyboard;
- 3) Curing and solidifying said primer;
- 4) Coating a layer of polyurethane (PU); and
- 5) Curing of said polyurethane (PU) layer.

In the forgoing described process, the key board is made from silicone rubber. A primer is firstly coated to the top of said key board. The primer used herein is a silane compound which is an organofunctionsilane polymer including sulfur, methacryloxy, amino, isocyanato. This primer has an excellent cohering capability to polyurethane (PU). Polyurethane is a compound which is mixed from a main agent containing -OH radical and another agent contain -NCO radical with predetermined ratio.

When the keyboard is coated with said primer, the coated key board is cured at 100-150 degrees Celsius for five-fifteen (5-15) minutes. Afterward, a PU layer is coated thereon and cured at 100-180 degrees Celsius for two-four (2-4) hours.

The resulted keyboard can be concluded with the following advantages.

1. Excellent quality similar to plastic;

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2. High wearing resistance;
3. Excellent chemical-resistance; and
4. Excellent contact feeling.

Example 1.

The keyboard made from general process is coated with a primer which is a silane compound containing sulfur, methacryloxy, amino, isocyanato. Afterward, the resulted semi-product is cured at 120 degrees Celsius about 10 minutes. Then a PU layer is coated to the primer. Afterward, curing it at 100-180 degrees Celsius about three (3) hours.

Example 2.

The keyboard made from general process is coated with a primer which is a silane compound containing sulfur, methacryloxy, amino, isocyanato. Afterward, the resulted semi-product is cured at room temperature about six (6) hours. Then a PU layer is coated to the primer. Afterward, curing it at 100-180 degrees Celsius about three (3) hours.



Claim:

1. A method for coating keyboard, including the steps of:

1) coating a layer of primer which contains sulfur, methacryloxy, amino, isocyanato, then said primer being cured at 100-150 degrees Celsius; and

2) coating a layer of polyurethane (PU) to said primer and curing said PU layer at 100-180 degrees Celsius.