

TITLE: TOOL FOR POSTPRODUCTION OF WALL SURFACE INTO
EXPOSED CONCRETE

(a) Technical Field of the Invention

The present invention relates to a wall paint scraping tool, and more
5 particularly to a tool for the postproduction of a wall surface into exposed
concrete.

(b) Description of the Prior Art

There are many types of walls for buildings, among those, painting walls,
tile walls and stone walls are most popular. Walls are formed by stacking
10 bricks bonded with cement together, and then coating them with cement
mortar. Finally, the finished walls mentioned above are coated with paint, or
stuck with tiles or stones depending on requirements.

As to current exposed concrete, it is made by pouring concrete into a
mold. After the solidification of concrete and the removal of mold, the
15 solidified exposed concrete is not modified and used as an architecture
material with complete concrete texture. However, methods for constructing
exposed concrete were immature in the past; nobody dare use it in home
buildings, leading to a situation that customers will mistake that the
construction of new houses is not completed upon closing even if exposed
20 concrete is used therein. But, the surface treatment of the so-called “exposed
concrete” is not done after the structure thereof is completed so that the

structural surface thereof is its external surface to the outside. Exposed concrete is generally considered as technical characterization; it is very difficult for general construction industries to make it. The construction method of exposed concrete is especially stressed on technologies and details; it cannot be careless upon the construction, otherwise marks will be left. As a result, current exposed concrete is difficult in manufacturing and high in cost.

SUMMARY OF THE INVENTION

To overcome the above defects of the conventional manufacturing of exposed concrete and design a safe, convenient and economically efficient tool for the postproduction of wall surface into exposed mold, the present
5 invention is proposed.

Given that exposed concrete replacement for wall surfaces must detach them first and rebuilt it by means of the construction method of exposed concrete, one object of the present invention is to provide a tool for the postproduction of a wall surface into exposed concrete, capable of altering a
10 painting wall surface to have an exposed concrete outside, and achieving an eye-appealing appearance. In addition, a wall surface to be rebuilt is unnecessary to be detached because of a special spreading pigment used in the present invention, further saving the cost.

To achieve the object mentioned above, the present invention proposes a
15 tool for the postproduction of a wall surface into exposed concrete, including a main body and a spreading layer covering an outside of the main body, thereby forming the tool for the postproduction of a wall face into exposed concrete.

According to the present invention, a painting wall surface can be altered
20 to have an exposed concrete outside, capable of achieving an eye-appealing appearance. In addition, a wall surface to be rebuilt is unnecessary to be

detached because of a special spreading pigment used in the present invention,
further saving the cost.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a tool for the postproduction of a wall surface into exposed concrete according to the present invention;

FIG. 2 is a cross-sectional view of the tool shown in FIG. 1;

5 FIG. 3 is a flow chart of the construction carried out with the tool shown in FIG. 1; and

FIG. 4 is a schematic view of an implementation example of the tool shown in FIG. 1.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to FIGS. 1 and 2, which respectively are a perspective view and cross-sectional view of a tool for the postproduction of a wall surface into exposed concrete according to the present invention, the tool includes a main
5 body 1 and a spreading layer 2 covering an outside of the main body 1, where the main body 1 may be an elastic element made of a water absorbing material such as, for example, sponge or foam, and the spreading layer 2 may be, for example, silk or unwoven material, thereby forming the tool for the postproduction of a wall surface into exposed concrete.

10 Next, referring to FIG. 3 which is a flow chart of the construction carried out with the tool shown in FIG. 1, it is shown in the figure that the construction has the following steps:

1. diagnosis: performing investigation, diagnosis on cracks, surface rust liquid and other bad portions, and then indicating them with labels;

15 2. removal of bad portions: removing the labels to expose the rust places of reinforcing bars, and then scraping them with wire brushes;

3. cleaning: removing laitance, dust, off-chips and etc with high pressure water or brushes;

20 4. bottom layer treatment: spreading powder paste mixed with synthetic rubber emulsion on the processed cracks, and repairing the deep and thick

portions to be repaired with blended mortar or lightweight mortar mixed with synthetic rubber emulsion;

5 5. middle layer spreading: spreading blended mortar or lightweight mortar mixed with synthetic rubber emulsion thickly on the middle layer, and further burying and then nourishing suitable wood holes therein;

6. upper layer spreading: spreading blended mortar with synthetic rubber emulsion finely with trowels, nourishing it, and then leaving it there during the nourishment;

10 7. coloration: using blended cement mixed with coloring pigment to color the wall surface with the tool of the present invention; and

8. waterproof treatment: spreading waterproof glue on the pigment product, and carrying out air drying thereon to complete the whole construction.

Finally, referring to FIG. 4, which is a schematic view of an
15 implementation example of the tool shown in FIG. 1, it is clearly from the figure that the tool of the present invention can alter a painting wall surface to have the outside of a postproduction exposed concrete A, capable of achieving an eye-appealing appearance. In addition, a wall surface to be rebuilt is unnecessary to be detached because of a special spreading pigment used in the
20 present invention, further saving the cost.

From the above description, it becomes obvious that the tool for the postproduction of a wall surface into exposed concrete according to the present invention has the following advantages:

1. the present invention can alter a painting wall surface to have an
5 exposed curette outside, capable of achieving an eye-appealing appearance;
2. a wall surface to be rebuilt is unnecessary to be detached, further saving the cost; and
3. the present invention can be industrially utilized.

I CLAIM:

1. A tool for the postproduction of a wall surface into exposed concrete,
comprising:
a main body; and
5 a spreading layer, covering an outside of said main body.
2. The tool according to claim 1, wherein said main body is an elastic
element.
3. The tool according to claim 2, wherein said elastic element is made
of a water absorbing material such as sponge or foam.
- 10 4. The tool according to claim 1, wherein said spreading layer is made
of silk or unwoven material.