GROUT SEALER APPLICATOR

Inventor: Eric James Freeman, Davenport, FL (US)

Appl. No.: 13/204,493
Filed: Aug. 5, 2011

Related U.S. Application Data
Provisional application No. 61/371,685, filed on Aug. 7, 2010.

Publication Classification
Int. Cl.
A46B 11/02 (2006.01)
A46B 11/06 (2006.01)

The Grout Sealer Applicator is a plastic wand type tool used to apply grout sealer. The applicator wand can be attached to the end of a chemical sprayer trigger. The applicator has a long tubular body with an angled brush at one end and a connection nut on the other. The applicator shaft is hollow, allowing grout sealer to flow from the nut end, through the shaft and into the brush. The grout sealer applicator gives the user the ability to apply sealer directly onto the grout surface in a standing position.

The Grout Sealer Applicator is a wand type tool used to apply grout sealer. The applicator wand can be attached to the end of a compression sprayer trigger. The applicator has a long tubular body with an angled brush at one end and a connection nut on the other. The applicator shaft is hollow, allowing grout sealer to flow from the nut end, through the shaft and into the brush. The grout sealer applicator gives the user the ability to apply sealer directly onto the grout surface in a standing position.
GROUT SEALER APPLICATOR

BACKGROUND OF THE INVENTION

0001 This invention relates to grout sealer applicators. Moreover it relates to devices used to apply grout sealer, such as mechanical.

0002 Typically grout sealer is applied with a paint roller or brush. Usually poured directly onto the grout and tile, then painted or rolled into the grout lines.

0003 Grout sealer that is applied by brush is not only time consuming but normally done on the knees of the user, in an uncomfortable position.

0004 If it is being rolled into the grout lines it is messy and wasteful.

0005 Therefore it would be very advantageous to remedy this process and other problems related to the above.

0006 The object of this invention is to give the user a comfortable way to apply grout sealer accurately and without waste, saving the user both time and money.

0007 Another object of this invention is to give the user more control over the amount of grout sealer being applied, minimizing mess and clean up time.

SUMMARY OF THE INVENTION

0008 To achieve the objects described in the above background the grout sealer applicator wand should be designed as follows:

0009 A wand designed to attach directly to the threaded end of most or all chemical sprayer triggers. If needed a special threaded adapter can be used with the applicator to fit other triggers.

0010 The wand has a hole through the shaft that allows grout sealer to flow from the connection nut into the brush end. From the brush it is applied directly and accurately onto the grout surface, keeping the sealer in between the lines and not on the tile.

0011 The length of the applicator wand should be about 3 feet or long enough that it can be used in a comfortable standing position.

0012 The adjustable switch goes from high to low setting. Depending on the users speed and accuracy they can choose the setting that best suits them. The switch is mounted into the brush end housing, inline with the shaft hole.

0013 The brush is angled to compensate the users own angle at which they stand giving the brushes more surface contact. The brush bristles should be of high to medium quality to ensure the applicator can be used repeatedly and to ensure that no bristles come loose during application of the sealer.

0014 To prevent excessive pressure at the nut & trigger connection and possibly stripping the threads; the body of the grout sealer applicator wand should be strong, flexible but also light weight.

0015 The connection nut should have enough threads to compensate for the length and weight of the wand, ensuring a good and strong connection to the sprayer trigger.

0016 If needed the connection nut can also contain an internal o-ring to seal and seal the connection.

0017 The grout sealer applicator wand could be designed with its own chemical sprayer and trigger or as stated can be used with most standard chemical sprayers and triggers.

0018 The applicator pays for itself on jobs that are 800 square feet or more of tile and can be stored and used every year that sealer needs to be applied.

0019 Leftover grout sealer can be saved in the sprayer reservoir and used again. Only the brush needs to be washed after use.

0020 A wand designed to attach directly to the threaded trigger end of most, all or one compression sprayer. If needed a special threaded adapter can be used with the applicator to fit most, all or one compression sprayer triggers.

0021 The grout sealer applicator wand could be designed with its own compression sprayer and trigger or as stated can be used with most standard compression sprayers and triggers.

BRIEF DESCRIPTION OF THE DRAWINGS

0022 FIG. 1 is a side view of the Grout Sealer Wand, showing the entire body of the applicator, the angle of the brush, the adjustment switch and the connection nut end.

0023 FIG. 2 is an angled view of the applicator brush end, without the brush bristles or the selector switch.

0024 FIG. 3 is an angled view of the applicator shaft, without the connection nut or brush. This figure shows a detailed look at the nut end of the shaft, without the connection nut.

0025 FIG. 4 is a side view of the applicator connection nut and threads.

0026 FIG. 5 is a side view and an internal view of the high and low selector switch.

0027 FIG. 6 is a view of the grout sealer applicator wand in action or working.

DETAILED DESCRIPTION OF THE INVENTION

0028 Now to the drawings in which similar reference characters indicate the corresponding parts throughout different views. First we look at FIG. 1 position 1 which shows direction of sealer flow through the middle of the applicator shaft, from nut end to brush end. Next FIG. 1 position 2 points to the threads in the connection nut. Then FIG. 1 position 3 points to the body or shaft of the applicator wand. Next FIG. 1 position 4 shows the length of the shaft to be about 3 feet. FIG. 1 position 5 points to the high and low setting switch. FIG. 1 position 6 points to the hole at the brush end where grout sealer flows out and into the brush bristles. FIG. 1 position 7 points to the angled brush bristles.

0029 Now looking to FIG. 2 position 1, which shows an o-ring groove on the wall of the high and low selector slot. Next FIG. 2 position 2 shows the hole at the brush end, where the sealer will flow out. FIG. 2 position 3 shows another hole, where the sealer flows into the selector switch, then to the brush side and out the brush end. FIG. 2 position 4 shows one the four small round indentations used for locking the high and low selector switch into position. The indentations should be evenly spaced to provide a secure lock.

0030 Next we look at FIG. 3 position 1 which shows the direction of sealer flow through the hollow shaft of the applicator. Then FIG. 3 position 2 points to the shaft of the grout sealer applicator wand. FIG. 3 position 3 points to the hole at the nut end of the applicator shaft. FIG. 3 position 4 shows an optional o-ring that could be used at the nut end to provide a better seal.

0031 Now to FIG. 4 position 1 which shows the threads inside the applicator connection nut. There should be enough
Having fully described the invention in clear and concise terms, the invention claimed is:

1. An applicator for a grout sealer comprising: A long tubular hollow body with a brush on one end and a connection nut on the opposite.

2. An applicator for liquid grout sealer as claimed in claim 1 wherein the shaft is hollow allowing grout sealer to flow through it.

3. An applicator for liquid grout sealer as claimed in claim 1 wherein the connection nut screws onto the trigger of a chemical sprayer.

4. An applicator for liquid grout sealer as claimed in claim 1 wherein the brush is angled to allow maximum surface contact.

5. An applicator for liquid grout sealer as claimed in claim 1 wherein there is a two position switch for high and low flow setting.

6. An applicator for liquid grout sealer as claimed in claim 1 wherein the connection nut screws onto the trigger of a compression sprayer.

* * * * *