TRASH BAG WITH ADHESIVE

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ABSTRACT
A trash bin liner that fixes into place preventing the liner from collapsing into the trash bin. The trash bin liner includes an adhesive disposed on the exterior surface of the trash bin liner. The adhesive is configured to releasably adhere to a trash bin.
TRASH BAG WITH ADHESIVE
CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application Ser. No. 60/530,066, filed Dec. 15, 2003.

BACKGROUND

[0002] The present disclosure relates to trash bin systems, specifically to a trash liner with adhesive for fixing the trash liners to the interior of a trash bin.

[0003] Trash cans, bins and baskets have been in use with plastic liner bags to store unwanted waste. A problem with the plastic liner bags is that the liner bags separate from the trash bin. The separation of the trash liner bag from the trash bin allows for waste material to fall between the trash liner and the trash can, thereby contaminating the trash can with waste.

[0004] The trash bins in the prior art have attempted to solve the above problem by use of separate lids fitting over the top of the trash can and pressing the liner bag between the lid and top of the trash bin. Other prior art relies on a drawstring contiguous with the opening of the liner bag. The drawstring is cinched around the top of the trash bin to hold the liner bag in place.

[0005] The prior art solutions fail to hold fast the liner bags due to the lids being loose and the drawstrings snapping.

[0006] What is needed in the art is a trash liner that holds tightly to the trash bin and prevents the liner bag from slipping, allowing waste material to contaminate the inside of the trash bin.

SUMMARY

[0007] The disclosed device is directed toward a trash bin liner comprising a liner body having a liner sidewall. The liner sidewall defines a liner interior and a liner exterior. A releasable adhesive is disposed on the liner sidewall near the liner exterior. The trash bin liner is configured to adhere to a trash bin.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] FIG. 1 is a partial side view of an exemplary trash bin.

[0009] FIG. 2 is a partial perspective view of an exemplary trash liner.

DETAILED DESCRIPTION

[0010] Persons of ordinary skill in the art will realize that the following description of the present disclosure is illustrative only and not in any way limiting. Other embodiments of the invention will readily suggest themselves to such skilled persons having the benefit of this disclosure.

[0011] The present disclosure describes a novel trash bin liner that fixes into place preventing the liner from collapsing into the trash bin. The trash bin liner includes an adhesive disposed on the exterior surface of the trash bin liner. The adhesive is configured to releasably adhere to a trash bin.

[0012] Referring to FIG. 1, a side view of an exemplary trash bin 10 is illustrated. The trash bin 10 includes a body 12, forming a sidewall 14 and a base 16. The sidewall 14 and base 16 define an exterior 20 and an interior 22. The sidewall 14 includes an interior wall surface 24. The base 16 includes an interior base surface 26. The interior 22 of the trash bin 10 is configured to contain trash.

[0013] Referring to FIG. 2, a partial perspective view of an exemplary trash bin liner 30 is illustrated. The trash bin liner 30 includes a liner body 32 having a liner sidewall 34. The liner sidewall 34 defines a liner interior 36 and a liner exterior 38. An adhesive 40 is disposed on the liner exterior 38 of the liner sidewall 34. The adhesive 40 can be configured to releasably adhere to the interior wall surface 24 of the trash bin 10. The adhesive 40 is also configured to adhere to the interior base surface 26 in alternative embodiments.

[0014] The adhesive 40 can be disposed on the liner exterior 38 in any pattern or shape. Such patterns include, but are not limited to, a lined pattern, a criss-cross pattern, a patched pattern, a random spatter pattern, and the like. The adhesive 40 can encircle the liner exterior 38 either completely or partially.

[0015] In an exemplary embodiment, the adhesive 40 can be disposed near an upper portion 42 of the trash liner 30. The trash liner 30 can be wrapped over an upper sidewall lip 44 so that the adhesive 40 disposed near the upper portion 42 can be adhered to an exterior portion 46 of the sidewall 14 proximate the lip 44.

[0016] The exemplary trash bin liner 30 is configured to be inserted into the interior 22 of the trash bin 10. The liner sidewall exterior 38 is pressed against the interior wall surface 24 to adhere the adhesive 40 to the interior wall surface 24. In alternative embodiments, the liner exterior 38 can also be adhered to the interior base surface 26 with the adhesive 40. The exemplary trash bin liner 30 is configured to be insertable into the interior of the trash bin 10 and remain installed. The adhesive 40 maintains the body of the trash bin liner 32 in place and prevents collapse of the liner 30.

[0017] The adhesive 40 is configured to release upon application of a predetermined amount of force. The force is sufficient to release the adhesive 40 before the liner wall 34 begins to tear.

[0018] While embodiments and applications of this invention have been shown and described, it would be apparent to those skilled in the art that many more modifications than mentioned above are possible without departing from the inventive concepts herein. The invention, therefore, is not to be restricted except in the spirit of the appended claims.

1. A trash bin liner comprising:
   a liner body having a liner sidewall, said liner sidewall defining a liner interior and a liner exterior; and
   a releasable adhesive disposed on said liner sidewall near said liner exterior, wherein said releasable adhesive is configured to adhere to a trash bin.

2. The trash bin liner of claim 1, wherein said releasable adhesive is configured to adhere to an interior surface of a trash bin.
3. The trash bin liner of claim 1, wherein said releasable adhesive is configured to adhere to an interior base surface of said trash bin.

4. The trash bin liner of claim 1, wherein said releasable adhesive is disposed in a lined pattern.

5. The trash bin liner of claim 1, wherein said releasable adhesive is disposed in a criss-cross pattern.

6. The trash bin liner of claim 1, wherein said releasable adhesive is disposed in a patched pattern.

7. The trash bin liner of claim 1, wherein said releasable adhesive is disposed in a random pattern.

8. The trash bin liner of claim 1, wherein said releasable adhesive encircles the liner exterior completely.

9. The trash bin liner of claim 1, wherein said releasable adhesive encircles the liner exterior partially.

10. The trash bin liner of claim 1, wherein said releasable adhesive is disposed near an upper portion of said trash bin.

11. The trash bin liner of claim 10, wherein said trash bin liner is configured to wrap over an upper sidewall lip of said trash bin so that said releasable adhesive can be adhered to an exterior portion of said sidewall near said upper sidewall lip.

12. The trash bin liner of claim 1, wherein said releasable adhesive is configured to release upon application of a predetermined amount of force.

13. The trash bin liner of claim 12, wherein said predetermined amount of force is sufficient to release said adhesive before said liner sidewall begins to tear.