adhesive properties, release properties, etc., can be optimized independently from the rigid plate. In some embodiments, the flexible adhesive tape or adhesive(s) on the flexible adhesive tape can be replaced after use, and the rigid plate can be useable. This allows an inter-changeability of flexible adhesive tapes for different environments if desired.

The embodiments described herein provide mounting articles that can produce superior weight claims, have smaller footprints, and more consistent performance on various household surfaces such as, for example, painted drywall.

In one embodiment, an adhesive mounting article is provided. The adhesive mounting article includes a flexible adhesive tape structure having a first major surface and a second major surface opposite to the first major surface. The flexible adhesive tape structure includes a peelable adhesive layer disposed on the first major surface and a first separable connecting member disposed on the second major surface. The peelable adhesive layer is capable of adhering to a mounting surface and thereafter manually removable from the mounting surface by peeling and comprising a non-stretch release adhesive. A rigid faceplate structure includes a rigid faceplate having a first major surface and a second major surface opposite to the first major surface, and a second separable connecting member disposed on the first major surface of the rigid faceplate. The first and second separable connecting members are configured to engage with each other to form a separable connection to connect the flexible adhesive tape structure and the rigid faceplate structure.

In another embodiment, an article support adapted for adhering to a substrate includes a flexible adhesive tape including a flexible backing layer and a peelable adhesive coated on a rear surface of the flexible backing layer. The flexible adhesive tape is capable of adhering to, via the peelable adhesive, the substrate and thereafter being manually removable from the substrate by peeling. A rigid plate includes a mounting member permanently attached to a front surface of the rigid plate. A separable connector includes a first connector member disposed on a front surface of the flexible backing layer and a second connector member disposed on a rear surface of the rigid plate, the first and second connector components being engagable/disengagable with each other to connect/disconnect the rigid plate and/from the flexible adhesive tape.

In another embodiment, an article support adapted for adhering to a substrate includes a flexible adhesive tape having a first major surface and a second major surface

opposite to the first major surface. The first major surface includes a peel release adhesive comprising a non-stretch release adhesive capable of adhering to the substrate. A rigid plate has a first major surface and a second major surface opposite to the first major surface. The first major surface includes a mounting member permanently attached thereon. The second major surface of the adhesive tape and the second major surface of the rigid plate are engagable with each other to detachably connect the rigid plate and the flexible adhesive tape. The rigid plate defines a recess on a rear surface thereof, the second connector member is disposed within the recess, and when the first and second connector members are engaged with each other to form the separable connection, the flexible adhesive tape structure is received by the recess.

Various aspects and advantages of exemplary embodiments of the disclosure have been summarized. The above Summary is not intended to describe each illustrated embodiment or every implementation of the present certain exemplary embodiments of the present disclosure. The Drawings and the Detailed Description that follow more particularly exemplify certain preferred embodiments using the principles disclosed herein.

BRIEF DESCRIPTION OF THE DRAWINGS

The disclosure may be more completely understood in consideration of the following detailed description of various embodiments of the disclosure in connection with the accompanying figures, in which:

Figure 1 is a perspective view of an adhesive mounting article including a flexible adhesive tape structure and a rigid faceplate structure to be connected, according to one embodiment.

Figure 2 is a perspective view of the adhesive mounting article of Fig. 1 adhering to a mounting surface.

Figure 3 is a side view in cross section of the adhesive mounting article of Fig. 1 with the flexible adhesive tape structure and the rigid faceplate structure being connected.

Figure 4 is a side view in cross section of the adhesive mounting article of Fig. 1 with the flexible adhesive tape structure and the rigid faceplate structure being disconnected.

Figure 5 is a perspective view of a rigid faceplate structure, according to another embodiment.

CLAIMS

What is claimed is:

1. An adhesive mounting article, comprising:

a flexible adhesive tape structure having a first major surface and a second major surface opposite to the first major surface, the flexible adhesive tape structure including a peelable adhesive layer disposed on the first major surface and a first separable connecting member disposed on the second major surface, the peelable adhesive layer being capable of adhering to a mounting surface and thereafter being manually removable from the mounting surface by peeling and comprising a non-stretch release adhesive; and

a rigid faceplate structure including a rigid faceplate having a first major surface and a second major surface opposite to the first major surface, and a second separable connecting member disposed on the first major surface of the rigid faceplate, the first and second separable connecting members being configured to engage with each other to form a separable connection to connect the flexible adhesive tape structure and the rigid faceplate structure.

2. The adhesive mounting article of claim 1, wherein the rigid faceplate structure covers the flexible adhesive tape structure to prevent the flexible adhesive tape structure from being manually removed from the mounting surface by peeling when the rigid faceplate structure is connected, via the separable connection, to the flexible adhesive tape structure.

3. The adhesive mounting article of claim 1, wherein the flexible adhesive tape structure further includes a flexible backing layer, and the peelable adhesive layer and the first separable connecting member are disposed on opposite surfaces of the flexible backing layer.

4. The adhesive mounting article of claim 3, wherein the flexible backing layer extends longitudinally beyond an edge of the peelable adhesive layer to form a tab portion.

5. The adhesive mounting article of claim 3, wherein the flexible backing layer includes a flexible polymeric foam layer.

6. The adhesive mounting article of claim 1, wherein the rigid faceplate defines a recess on the first major surface thereof, the second separable connecting member is disposed within the recess, and when the first and second separable connecting members are engaged with each other to form the separable connection, the flexible adhesive tape structure is received by the recess.

7. The adhesive mounting article of claim 1, wherein the rigid faceplate structure further includes an apron disposed around a periphery of the rigid faceplate to form a recess, and the apron is positioned such that when the rigid faceplate structure is connected, via the separable connection, to the flexible adhesive tape structure at least a portion of the apron is pressed against the mounting surface and in direct contact with the mounting surface.

8. The adhesive mounting article of claim 7, wherein when the flexible adhesive tape structure is received in the recess of the rigid face plate structure, a gap is formed between a bottom edge of the flexible backing layer and a bottom portion of the apron.

9. The adhesive mounting article of claim 7, wherein the apron includes a rigid portion and a compressible material distinct from the material of the rigid portion.

10. The adhesive mounting article of claim 7, wherein the apron includes a rigid portion, the rigid portion is located at a bottom portion of the rigid faceplate structure and configured to be in direct contact with the mounting surface and act as a supporting member.

11. The adhesive mounting article of claim 1, wherein the rigid faceplate structure further includes a mounting member disposed on the second major surface of the rigid faceplate.

12. The adhesive mounting article of claim 11, wherein the mounting member includes a hook that is permanently attached to the rigid faceplate.

18. An article support adapted for adhering to a substrate, comprising:

a flexible adhesive tape having a first major surface and a second major surface opposite to the first major surface, the first major surface including a peel release adhesive comprising a non-stretch release adhesive capable of adhering to the substrate; and

a rigid plate having a first major surface and a second major surface opposite to the first major surface, the first major surface including a mounting member permanently attached thereon,

wherein the second major surface of the adhesive tape and the second major surface of the rigid plate are engagable with each other to detachably connect the rigid plate and the flexible adhesive tape,

wherein the rigid plate defines a recess on a rear surface thereof, the second connector member is disposed within the recess, and when the first and second connector members are engaged with each other to form the separable connection, the flexible adhesive tape structure is received by the recess.

19. The article support of claim 18, wherein the rigid plate further includes a supporting member disposed at a lower portion of the second major surface thereof, and the rigid supporting member is positioned vertically lower than the flexible adhesive tape and configured to be in direct contact with the substrate when the rigid plate is connected to the flexible adhesive tape.

20. The article support of claim 18, wherein the flexible adhesive tape is removable from the substrate by peeling a peel angle of at least 90 degrees.