

THE CLAIMS:

1. A paperboard carrier (10) suitable for use in winding a material (20) thereon, the carrier (10) comprising:

one or more strips (32) of paperboard secured together to form an elongate structure, the elongate structure defining an outer surface (14); and

a coating (50) disposed on the outer surface (14) in a predetermined region, the coating (50) comprising a coating agent and a solvent.

2. The paperboard carrier (10) of claim 1, wherein:

the coating agent is selected from the group consisting of a fluorourethane copolymer, a silicone resin and a fluoroalkyl acrylate copolymer emulsion; and

the solvent is selected from the group consisting of acetone, methyl alcohol and isopropyl alcohol.

3. The paperboard carrier (10) of claim 2, wherein:

the coating consists essentially of the coating agent and the solvent.

4. The paperboard carrier (10) of claim 1, wherein:

the coating agent is a fluorourethane copolymer ; and

the solvent is acetone.

5. The paperboard carrier (10) of claim 4, wherein:

the coating comprises about 10% to about 20% fluorourethane copolymer and from about 80% to about 90% acetone.

6. The paperboard carrier (10) of claim 1, wherein:
the coating agent is a silicone resin; and
the solvent is isopropyl alcohol.
7. The paperboard carrier (10) of claim 6, wherein:
the coating comprises about 4% to about 10% silicone resin and from about 90% to about 96% isopropyl alcohol.
8. The paperboard carrier (10) of claim 6, wherein:
the silicone resin comprises a siloxane.
9. The paperboard carrier (10) of claim 6, wherein:
the silicone resin comprises silicone resin and octamethylcyclotetrasiloxane.
10. The paperboard carrier (10) of claim 6, wherein:
the silicone resin comprises about 50% silicone resin and about 50% octamethylcyclotetrasiloxane.
11. The paperboard carrier (10) of claim 1, wherein:

the coating agent is a fluoroalkyl acrylate copolymer emulsion; and
the solvent is water.

12. The paperboard carrier (10) of claim 1, wherein:

the coating comprises about 4% fluoroalkyl acrylate copolymer emulsion and
about 96% water.

13. The paperboard carrier (10) of claim 1, wherein:

the coating agent is a fluoroalkyl acrylate copolymer emulsion; and
the solvent is methyl alcohol.

14. The paperboard carrier (10) of claim 1, wherein:

the coating (50) comprises about 50% fluoroalkyl acrylate copolymer emulsion
and about 50% methyl alcohol.

15. A method (100) of manufacturing a paperboard carrier (10) suitable for use in
winding materials (20) thereon, the method comprising the steps of:

in a first operation (102), winding one or more strips (32) of paperboard about a
mandrel to form an elongate structure defining an axis (A), the elongate structure having
a cylindrical body (12), the cylindrical body (12) having an outer surface (14) and
opposing first and second ends (16);

in a second operation (104), cutting the elongate structure to create a carrier (10)

having a desirable axial length; and

in a third operation (106), using a plurality spray nozzles (40) to apply a coating (50) onto the outer surface (14).

16. The method (100) of claim 15, wherein:

in the third operation (106), the plurality spray nozzles (40) applies a coating (50) onto the outer surface (14) of the elongate structure prior to the second, cutting operation (104).

17. The method (100) of claim 15 further comprising:

in a fourth operation (108), printing an ink identifier (38) onto one or both of the cylindrical body ends (16) after the coating operation (106); wherein the ink identifier comprises a barrier chemical.

18. A paperboard carrier (10) suitable for use in winding a material (20) thereon, the carrier (10) comprising:

one or more strips (32) of paperboard secured together to form a cylindrical elongate structure, the cylindrical elongate structure defining an outer surface (14); and
an ink identifier (38) printed onto the outer surface (14) in a predetermined region, the ink identifier (38) having a barrier property that minimizes the transfer of chemicals between the ink identifier (38) and the material (20).

19. The paperboard carrier (10) of claim 18 wherein:
the ink identifier (38) comprises an aqueous based ink and a barrier compound.
20. The paperboard carrier (10) of claim 18 wherein:
the ink identifier (38) comprises a solvent based ink and a barrier compound.