CLAIMS:

1. A covered joint comprising:

at least one joint formed at the confluence of at least two pipes (106,108), and

a joint cover device (100) covering said joint comprising:

(i) at least one polymer-based cover portion (102), wherein each cover portion (102) is both durable and watertight and is designed to surround the at least one joint formed at the confluence of the at least two pipes (106, 108); and

(ii) at least one securing structure per pipe (106, 108) for securing the at least one polymer-based cover portion (102) around each of the two or more pipes (106, 108),

wherein each of the at least one polymer-based cover portions (102) further comprise either

(a) one or more volatile, or vapor phase, corrosion inhibitors within each of the polymer-based cover portions (102), or

(b) one or more corrosion inhibiting capsules within the one or more interior areas formed from the at least one polymer-based cover portion (102).

2. The covered joint of claim 1, wherein at least one access seam is formed within each of the cover portions (102), wherein the access seam is designed to permit access to the joint protected by the joint cover (100).

3. The covered joint of claim 1 or 2, wherein the at least one polymer-based cover portion (102) is formed from one or more polystyrene films, one or more polypropylene films, one or more polyethylene films, one or more polyolefin films other than said polypropylene and said polyethylene, or combinations of two or more thereof.

4. The covered joint of claims 1 to 3, wherein the joint is selected from a connector, a connection, a welded joint, a flange joint, or a valve joint.

5. The covered joint of claims 1 to 4, wherein each securing structure is independently elected from twist ties, plastic cable ties, metal cable ties, metal claps, or a combination of two or more thereof.

6. The covered joint of claims 1 to 5, wherein the at least polymer-based one cover portion is UV resistant and/or flame resistant.

7. The covered joint of claims 1 to 6, wherein the at least one cover portion further comprises one or more desiccant capsules within the one or more interior areas formed from the at least one polymer-based cover portion.

8. The covered joint of claims 2 to 7, wherein the access seam is formed from resealable double sided tape, or from a polymer zipper.

9. Use of a joint cover device (100) for protecting and/or managing the corrosion of a joint formed at the confluence of the at least two pipes (106, 108),

wherein the joint cover device (100) comprises:

(i) at least one polymer-based cover portion (102), wherein each cover portion (102) is both durable and watertight and is designed to surround the at least one joint formed at the confluence of the at least two pipes (106, 108); and

(ii) at least one securing structure per pipe (106, 108) for securing the at least one polymer-based cover portion (102) around each of the two or more pipes (106, 108),

wherein each of the at least one polymer-based cover portion (102) further comprises either

(a) one or more volatile, or vapor phase, corrosion inhibitors within each of the polymer-based cover portions (102), or

(b) one or more corrosion inhibiting capsules within the one or more interior areas formed from the at least one polymer-based cover portion (102).

CLAIMS

What is claimed is:

1. A joint cover device comprising:

at least one polymer-based cover portion, wherein each cover portion is both durable and watertight and is designed to surround at least one joint formed at the confluence of at least two pipes; and

at least one securing structure per pipe for securing the at least one polymer-based cover portion around each of the two or more pipes,

wherein each of the at least polymer-based cover portion further comprise either one or more volatile, or vapor phase, corrosion inhibitors within each of the polymer-based cover portions, or one or more corrosion inhibiting capsules within the one or more interior areas formed from the at least one polymer-based cover portion.

2. The joint cover of claim 1, wherein the at least one polymer-based cover portion comprises one or more volatile, or vapor phase, corrosion inhibitors within its polymer-based cover portion.

3. The joint cover of claim 1, wherein the at least one polymer-based cover portion comprises one or more volatile, or vapor phase, corrosion inhibiting capsules within the interior of polymer-based cover portion.

4. The joint cover of claim 1, wherein the at least one polymer-based cover portion is formed from one or more polystyrene films, one or more polypropylene films, one or more polyethylene films, one or more polyolefin films, or combinations of two or more thereof.

5. The joint cover of claim 1, wherein the service life of the joint cover is in the range of about 1 month to about 50 years.

6. The joint cover of claim 1, wherein the service life of the joint cover is in the range of about 6 months to about 25 years.

7. The joint cover of claim 1, wherein the service life of the joint cover is in the range of about 1 year to about 15 years.

8. The joint cover of claim 1, wherein the joint is selected from a connector, a connection, a welded joint, a flange joint, or a valve joint.

9. The joint cover of claim 1, wherein each securing structure is independently elected from twist ties, plastic cable ties, metal cable ties, metal claps, or a combination of two or more thereof.

10. The joint cover of claim 1, wherein the at least polymer-based one cover portion is UV resistant.

11. The joint cover of claim 1, wherein the at least one polymer-based cover portion is flame resistant.

12. The joint cover of claim 1, wherein the at least one cover portion further comprises one or more desiccant capsules within the one or more interior areas formed from the at least one polymer-based cover portion.

13. A joint cover device comprising:

at least one polymer-based cover portion, wherein each cover portion is both durable and watertight and is designed to surround at least one joint formed at the confluence of at least two pipes;

at least one securing structure per pipe for securing the at least one polymer-based cover portion around each of the two or more pipes; and

at least one access seam formed within each of the cover portions, wherein the access seam is designed to permit access to the joint protected by the joint cover,

wherein each of the at least polymer-based cover portion further comprise either one or more volatile, or vapor phase, corrosion inhibitors within each of the polymer-based cover portions, or one or more corrosion inhibiting capsules within the one or more interior areas formed from the at least one polymer-based cover portion.

14. The joint cover of claim 13, wherein the at least one polymer-based cover portion comprises one or more volatile, or vapor phase, corrosion inhibitors within its polymer-based cover portion.

15. The joint cover of claim 13, wherein the at least one polymer-based cover portion comprises one or more volatile, or vapor phase, corrosion inhibiting capsules within the interior of polymer-based cover portion.

16. The joint cover of claim 13, wherein the at least one polymer-based cover portion is formed from one or more polystyrene films, one or more polypropylene films, one or more polyethylene films, one or more polyolefin films, or combinations of two or more thereof.

17. The joint cover of claim 13, wherein the service life of the joint cover is in the range of about 1 month to about 50 years.

18. The joint cover of claim 13, wherein the service life of the joint cover is in the range of about 6 months to about 25 years.

19. The joint cover of claim 13, wherein the service life of the joint cover is in the range of about 1 year to about 15 years.

20. The joint cover of claim 13, wherein the joint is selected from a connector, a connection, a welded joint, a flange joint, or a valve joint.

21. The joint cover of claim 13, wherein each securing structure is independently selected from twist ties, plastic cable ties, metal cable ties, metal claps, or a combination of two or more thereof.

22. The joint cover of claim 13, wherein the at least one polymer-based cover portion is UV resistant.

23. The joint cover of claim 13, wherein the at least one polymer-based cover portion is flame resistant.

24. The joint cover of claim 13, wherein the at least one cover portion further comprises one or more desiccant capsules within the one or more interior areas formed from the at least one polymer-based cover portion.

25. The joint cover of claim 13, wherein the access seam is formed from resealable double sided tape.

26. The joint cover of claim 13, wherein the access seam is formed from a polymer zipper.

27. A joint cover device comprising:

at least two polymer-based cover portions, wherein each cover portion is both durable and watertight and is designed to surround at least one joint formed at the confluence of at least two pipes; and

at least one securing structure per pipe for securing each of the at least two polymer-based cover portions around each of the two or more pipes,

wherein one of the at least two polymer-based cover portions further comprises either one or more volatile, or vapor phase, corrosion inhibitors within the polymer-based cover portion, or one or more corrosion inhibiting capsules within the one or more interior areas formed from the at least one polymer-based cover portion, and wherein the second of the at least two polymer-based cover portions further comprises either one or more desiccant compounds within the polymer-based cover portion, or one or more desiccant capsules within the interior area formed from the second polymer-based cover portion.

28. The joint cover of claim 27, wherein the each of the two or more polymer-based cover portions are independently formed from one or more polystyrene films, one or more polypropylene films, one or more polyethylene films, one or more polyolefin films, or combinations of two or more thereof.

29. The joint cover of claim 27, wherein the service life of the joint cover is in the range of about 1 month to about 50 years.

30. The joint cover of claim 27, wherein the service life of the joint cover is in the range of about 6 months to about 25 years.

31. The joint cover of claim 27, wherein the service life of the joint cover is in the range of about 1 year to about 15 years.

32. The joint cover of claim 27, wherein the joint is selected from a connector, a connection, a welded joint, a flange joint, or a valve joint.

33. The joint cover of claim 27, wherein each securing structure is independently selected from twist ties, plastic cable ties, metal cable ties, metal claps, or a combination of two or more thereof.

34. The joint cover of claim 27, wherein each of the at least two polymer-based cover portions are UV resistant.

35. The joint cover of claim 27, wherein each of the at least two polymer-based cover portions are flame resistant.

36. The joint cover of claim 27, wherein the joint cover further comprises at least one transparent area.