Extruded Polyolefin Coatings for Steel Water Pipe

Effective date: July 1, 2016.
This edition approved Jan. 16, 2016.
Committee Personnel

The SWPMTAC Task Group for AWWA C215, which revised this standard, had the following personnel at the time:

Dan Libby, Chair

R.M. Buchanan, Seal for Life, Toronto, Ont., Canada (AWWA)
D. D’Ambrosio, Polyguard Products, Houston, Texas (AWWA)
A. Fletcher, Steel Mains Pty, Melbourne, Australia (AWWA)
B.D. Keil, Northwest Pipe Company, Draper, Utah (AWWA)
S. Thomas, Seal for Life, Franklin, Mass. (AWWA)
J.A. Wise, Canus International Sales Inc., Surrey, B.C., Canada (AWWA)

The AWWA Standards Committee on Steel Pipe, which reviewed and approved this standard, had the following personnel at the time of approval:

John H. Bambei Jr., Chair
Dennis Dechant, Vice-Chair
John L. Luka, Secretary

General Interest Members

W.R. Brunzell, Brunzell Associates Ltd., Skokie, Ill. (AWWA)
R.J. Card, Lockwood Andrews & Newnam, Houston, Texas (AWWA)
R.L. Coffey, HDR Engineering Inc., Omaha, Neb. (AWWA)
S.N. Foellmi, Black & Veatch Corporation, Irvine, Calif. (AWWA)
R.L. Gibson, Freese and Nichols Inc., Fort Worth, Texas (AWWA)
M.D. Gossett,* HDR, Denver, Colo. (AWWA)
M.B. Horsley,* Horsley Engineering LLC, Overland Park, Kan. (AWWA)
R.A. Kufaas, Norske Corrosion & Inspection Services Ltd., Surrey, B.C., Canada (AWWA)
J.L. Mattson, Corrosion Control Technologies, Sandy, Utah (AWWA)
A. Murdock, CH2M, Salt Lake City, Utah (AWWA)
R. Ortega,* Consultant, Spring, Texas (AWWA)
E.S. Ralph,† Standards Engineer Liaison, AWWA, Denver, Colo. (AWWA)
A.E. Romer, AECOM, Orange, Calif. (AWWA)

* Alternate
† Liaison, nonvoting
Producer Members

D.W. Angell,* Standards Council Liaison, American Flow Control, Birmingham, Ala. (AWWA)
S.A. Arnaout, Hanson Pressure Pipe Inc., Dallas, Texas (AWWA)
H.H. Bardakjian, Consultant, Glendale, Calif. (AWWA)
D. Dechant, Dechant Infrastructure Services, Aurora, Colo. (AWWA)
V. DeGrande,† Alt Ameron Water Transmission Group, Rancho Cucamonga, Calif. (AWWA)
W.B. Geyer, Steel Plate Fabricators Association, Lake Zurich, Ill. (AWWA)
B.D. Keil, Northwest Pipe Company, Draper, Utah (AWWA)
J.L. Luka, American SpiralWeld Pipe Company, Columbia, S.C. (AWWA)
R.D. Mielke,† Northwest Pipe Company, Raleigh, N.C. (AWWA)
J. Olmos, Ameron Water Transmission Group, Rancho Cucamonga, Calif. (AWWA)
G.F. Ruchti,† Consultant, Punta Gorda, Fla. (AWWA)
B.P. Simpson,† American Cast Iron Pipe Company, Birmingham, Ala. (AWWA)
C.C. Sundberg, Victaulic, Issaquah, Wash. (AWWA)
D. Walker, Avid Protective Products Ltd./Tnemec Company, Oakville, Ont., Canada (AWWA)
J.A. Wise, Canus International Sales Inc., Surrey, B.C., Canada (AWWA)

User Members

G.A. Andersen, New York City Bureau of Water Supply, Little Neck, N.Y. (AWWA)
J.H. Bambei Jr., Bambei Engineering Services, Arvada, Colo. (AWWA)
B. Cheng, Metro Vancouver, Burnaby, B.C., Canada (AWWA)
M.E. Conner, San Diego County Water Authority, San Diego, Calif. (AWWA)
R.V. Frisz, US Bureau of Reclamation, Denver, Colo. (USBR)
S. Hattan, Tarrant Regional Water District, Fort Worth, Texas (AWWA)
T.J. Jordan,† Metropolitan Water District of Southern California, LaVerne, Calif. (AWWA)
P.K. Karna, Tacoma Water, Tacoma, Wash. (AWWA)
M. McReynolds, Metropolitan Water District of Southern California, Los Angeles, Calif. (AWWA)
M. Turney,† Denver Water, Denver, Colo. (AWWA)
N.A. Wigner, Los Angeles Department of Water and Power, Los Angeles, Calif. (AWWA)

*  Liaison, nonvoting
†  Alternate
Contents

All AWWA standards follow the general format indicated subsequently. Some variations from this format may be found in a particular standard.

SEC. PAGE SEC. PAGE

Foreword
I Introduction.............................. vii 4.8 Holiday Testing.......................... 12
I.A Background.............................. vi 5 Verification
I.B History................................. vii 5.1 Coating Materials Prequalification.. 12
II Special Issues............................ vii 5.2 Requirements of Coating System..... 12
III Use of Standard........................ vii 5.3 Quality Assurance and Records...... 14
III.A Purchaser Options and 5.4 Inspection and Testing by the
Alternatives............................... vii Purchaser................................. 14
III.B Modification to Standard........... viii 5.5 Quality-Control Requirements of
IV Major Revisions....................... viii Applied Coating Systems
V Comments............................... ix (Types A, B, and C)...................... 15

Standard

1 General
1.1 Scope ...................................... 1 5.6 Rejection................................. 17
1.2 Purpose .................................... 2
1.3 Application............................... 2

2 References............................... 2

3 Definitions............................... 4

4 Requirements
4.1 Equipment............................... 4 6 Delivery
4.2 Materials and Workmanship......... 4 6.1 Marking.................................. 17
4.3 Coating System........................ 4 6.2 Packaging and Shipping.............. 17
4.4 Coating Application................... 7 6.3 Affidavit of Compliance.............. 17
4.5 Coating Repair........................ 11
4.6 Field Procedures....................... 12
4.7 Coating of Field Joints............... 12

Tables
1 Properties of Adhesive (Type A) .... 5
2 Properties of Adhesive (Types B 5 Prequalification Requirements of
and C)........................................ 5

3 Properties of Polyolefin Resin for 4 Coating Systems (Types A, B,
Polyolefin Sheath (Types A, B, and C).............. 5

4 Prequalification Requirements of 5 Coating Systems (Types A, B,
Coating Systems (Types A, B, and C).................. 5

5 Quality-Control Properties of 6 Coating Systems (Types A, B,
Coating Systems (Types A, B, and C).................. 6