GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS

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VOLUME 1

SECTION 1 GENERAL

(a) Appendix 1.1, Clause 1.1.1, Page 61 Replace BS 882:1983 by BS 882:1992

(b) Appendix 1.1, Clause 1.1.1, Page 64 **Delete:-**

BS 2499 : 1973

Specification for hot applied joint sealants for concrete

pavements

and replace by:-

BS 2499 Hot-applied

systems for concrete pavements

joint

sealant

BS 2499 : Part 1 : 1993 Specification for joint

sealants

BS 2499 : Part 2 : 1992 Code of practice for the

application and use of joint

sealants

BS 2499 : Part 3 : 1993 Methods of test

(c) Appendix 1.1, Clause 1.1.1, Page 65 Replace BS 3416: 1988 by BS 3416: 1991 with AMD 7288

(d) Appendix 1.1, Clause 1.1.1, Page 73 Add the following standards between BS 6700: 1987 and BS 6925:

1988:

BS 6920 Suitability of non-metallic

products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

BS 6920 : Part 1 : 1990 Specification

BS 6920 : Part 2 Methods of test

BS 6920 : Section 2.1 : 1990 Samples for testing

BS 6920 : Section 2.2 Taste of water

BS 6920 : Subsection 2.2.1 : 1990 General method of test

BS 6920 : Subsection 2.2.2 : 1990 Method of testing tastes

imparted to water by hoses

BS 6920 : Subsection 2.2.3 : 1990 Method of testing tastes

imparted to water by hoses for conveying water for food and

drink preparation

BS 6920 : Section 2.3 : 1990 Appearance of water

BS 6920 : Section 2.4 : 1988(1994) Growth of aquatic

microorganisms

BS 6920 : Section 2.5 : 1990 The extraction of

substances that may be of

concern to public health

BS 6920 : Section 2.6 : 1990 The extraction of metals

BS 6920 : Part 3 : 1990 High temperature tests

(e) Appendix 1.1, Clause 1.1.2, Page 73 Add the following standard between ASTM A 775M-86 and ASTM C

127-88:

ASTM C 117-87 Test method for materials finer

than 75-µm (No. 200) sieve in mineral aggregates by washing

(f) Appendix 1.1, Clause 1.1.5

Delete:

CS1: 1990 with AMD 1101 and

AMD 1201

Testing Concrete

and replace by:

CS1: 1990 with AMD 1101,

AMD 1201, AMD 1202 and AMD

1203

Testing Concrete

SECTION 5

DRAINAGE WORKS

(a) Page 132, Table 5.10, last column, 2nd row Replace 500 mm - 800 mm by 450 mm - 800 mm

VOLUME 2

SECTION 9

CARRIAGEWAYS: **SUB-BASE MATERIAL AND BITUMINOUS MATERIALS**

(a) Clause 9.52(2), 3rd line

Replace ASTM D 546 by ASTM C 117

(b) Clause 9.56(2), 4th line

Replace ASTM D 546 by ASTM C 117

SECTION 11

MISCELLANEOUS ROADWORKS

(a) Clause 11.39(1), 2nd line

Replace BS 1499 : Part 1 by BS 1449 : Part 1

(b) Appendix 11.1, Clause 11.1.4

Replace sub-clause (2) by the following:

(2) The unbiased standard deviation (s) shall be calculated from the following equation:

$$s = \frac{O\alpha C^2 - 5(Cm)^2}{2} MPa$$

where:

- αC^2 is the sum of the square of the compressive strengths of the five interlocking blocks (MPa)
- Cm is the average of the compressive strengths of the five interlocking blocks

SECTION 16

CONCRETE AND JOINTS IN CONCRETE

(a) Clause 16.74(1), Add and effluent treatment after sewage 2nd line

zna nne

Replace bacteriological attack and by microbiological attack and resistant

(b) Clause 16.74(1), 3rd line

(c) Clause 16.74(2),

2nd line

Replace shall be non-toxic and shall not impart a taste to the water by

shall comply with the requirements of BS 6920

(d) Clause 16.77(5), 2nd line

Table 16.10

Replace type A1 by type N1

(e) Page 200,

Replace Table 16.10 by the following:

Table 16.10: 濱oint sealant for water retaining structures and water tight structures

Structure for retaining/excluding	Type of joint	Type of joint sealant
Sewage	All joints	Polyurethane-based
	Expansion joints	Polysulphide-based or polyurethane- based
Other than sewage	Horizontal joints other than expansion joints	Hot-applied bitumer rubber, polysulphide-based based
	Vertical and inclined joints other than expansion joints	Polysulphide-based polyurethane-based or cold-applied bitumen rubber

VOLUME 3

SECTION 21 MARINE WORKS

(a) Clause 21.21(3), Replace type 2 by type D (drainage) 1st line

SECTION 23 WATER SUPPLY PIPEWORKS

(a) Clause 23.18(4) Add or welded-on after cast-on

(b) Clause 23.20, 1st line

Replace Type 1 for water by type W (water)

(c) Clause 23.21

Replace sub-clauses (1), (2) and (3) by the following:

- (1) Anticorrosion tape shall be a proprietary type approved by the Engineer. The tape shall either be a petrolatum tape with fabric reinforcement or a bituminous tape with PVC backing. Petrolatum tape shall be used for valves, flanged joints, slip-on type couplings and flange adaptors of all sizes. Bituminous tape shall be used in buried or non-exposed condition for welded joints of steel pipe, repair of steel pipe sheathing and other applications as specified on the Drawings.
- (2) Anticorrosion tapes shall have a high resistance to cathodic disbondment, acids and alkalis. Colour of bituminous tape shall be black. Anticorrosion tapes shall have the minimum properties stated in Table 23.2.
- (3) Primer and mastic filler for use with anticorrosion tape shall be compatible with the tape and shall be a type recommended by the manufacturer of the tape and approved by the Engineer. Notwithstanding Clause 23.28(1)(f), primer and mastic filler for use with anticorrosion tape shall be supplied by the Contractor.
- (4) Bituminous tapes shall be stored in a cool dry place away from the sun's rays. No dirt or grits shall be allowed to stick on the edge of the tape before applying the tape for pipe protection.
- (5) The following particulars of the proposed anticorrosion tape for water supply pipeworks shall be submitted to the Engineer:
 - (a) manufacturer's literature for anticorrosion tape, and
 - (b) certificate for anticorrosion tape showing the manufacturer's name, the date and place of manufacture and showing that the material complies with the requirements stated in the Contract and including results of tests in accordance with the Contract.
- (6) The particulars, including certificates, shall be submitted to the Engineer at least 14 days before the first delivery of the material to the Site. Certificates shall be submitted for each batch of the material delivered to the Site.

(d) Page 149, Table 23.2

Replace Table 23.2 by the following:

Table 23.2: Properties of anticorrosion tape

Properties		Petrolatum tape	Bituminous Tape
Thickness of PVC backing (mm)		-	0.75
Total thickness (mm)		1.1	1.65
Mass (kg/m²)		1.4	2.0
Tensile strength (N/mm)		4	10
Adhesion strength (180° peel) (N/mm)	Self	0.5	2.5
	Steel	0.5	2.5
Dielectric strength (2 layers) (kV)		15	30
Elongation (at break) (%)		-	260
Temperature range (°C)	Wrapping	-5 to +45	+5 to +50
	In service	-5 to +45	-20 to +75

Standards Unit Civil Engineering Department August 1996