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**« Protection and repairs of
concrete structures »**

CEN/TC 104/SC 8 N 192 Rev 11



**List of CEN/TC 104/SC 8 draft standards
submitted or to be submitted
to CEN enquiry**



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WG	SC 8 Number	Pr EN	Title	Resolution for submission to CEN enquiry	Sent to CEN/CS for enquiry on	Beginning of CEN enquiry	End of CEN enquiry	Resolution for submission to formal vote
CG	104-800-1	1504-1	Definitions, requirements, quality control, evaluation of conformity Part 1 : Definitions	R 1/93 Lillehammer, 24-25/06/93	03/05/1994	08/06/1994	08/12/1994	R 8/95 Paris, 28-29/09/1995
1	104-800-2	1504-2	Part 2 : surface protection systems	R 1/99 Oslo, 22-23/04/99	16/02/2000	23/03/2000	23/09/2000	R 2/2002 Copenhagen, 18-19/04/2002
2	104-800-3	1504-3	Part 3 : structural and non structural repair	R 3/2000 Brussels, 13-14/04/2000	13/02/2001	29/03/2001	29/09/2001	
3	104-800-4	1504-4	Part 4 : structural bonding	R 7/99 London, 25-26/11/99	25/02/2000	13/04/2000	13/10/2000	R 10/2002 Copenhagen, 18-19/04/2002
4	104-800-5	1504-5	Part 5 : Concrete injection	R 5/2001 Helsinki, 26-27/04/2001	03/07/2001	18/10/2001	18/04/2002	
	104-800-8	1504-8	Part 8 : Sampling, evaluation of conformity, marking and labelling	R 8/2000 Zürich, 30-01/12/2000	19/02/2001	10/05/2001	10/11/2001	R 8/2002 Copenhagen, 18-19/04/2002
7	104-800-9	1504-9	Part 9 : General principles for the use of products and systems	R 4/95 Paris, 28-29/09/95				R 12/96 Gothenburg, 21-22/11/96
	104-800-10	1504-10	Part 10 : site application of products and systems and quality control of the works	R 13/98 Berlin, 26-27/11/98	07/06/1999	15/07/99	15/01/2000	R 12/2000 Zürich, 30-01/12/2000
CG	104-801	1766	Reference concretes for testing	R 1/94 Copenhagen, 27-28/04/94	07/11/1994	01/03/1995	01/09/1995	R 8/96 Gothenburg, 21-22/11/96
2	104-804-1	12192-1	Granulometry size grading - Part 1 : Method for dry components of premixed mortar	R 3/97 Paris, 28-29/04/97	17/04/1998	16/07/1998	16/01/1999	R 3/2000 Brussels, 13-14/04/2000
3	104-804-2	12192-2	Granulometry size grading - Part 2 : Method for fillers for polymers bonding agents	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	R 13/97 Milan, 27-28/11/97
1	104-806-1	1880-1	Specific weight - Part 1 : Pyknometer method	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	See EN ISO 2811-1 ?
1	104-806-2	1880-2	Specific weight - Part 2 : Immersed body method	R 1/94 Copenhagen, 27-28/04/94	07/11/1994	20/03/1995	20/09/1995	See EN ISO 2811-2 ?
1	104-807	1767	Infrared analysis	R 12/93 Barcelone, 17-18/11/93	07/11/1994	13/03/1995	13/09/1995	R 2/97 Paris, 28-29/04/1997
1	104-808-1	1877-1	Reactive functions related to epoxy resins - Part 1 : Determination of epoxy equivalent	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	20/03/1995	20/09/1995	R 2/97 Paris, 28-29/04/1997

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1	104-808-2	1877-2	Reactive functions related to epoxy resins - Part 2 : Determination of amine functions	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	20/03/1995	20/09/1995	R 2/97 Paris, 28/29/04/1997
1	104-809-1		Reactive functions related to polyurethane resins - Part 1 : Determination of hydroxyl value	R 11/94 Milan, 17-18/11/94	01/09/1995			See prEN 1240
1	104-809-2		Reactive functions related to polyurethane resins - Part 2 : Determination of isocyanate content	R 11/94 Milan, 17-18/11/94	01/09/1995			See prEN 1242
1	104-810	1768	Determination of volatile and non volatile matter	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	01/03/1995	01/09/1995	See EN ISO 3251 ?
1	104-811	1879	Determination of ash by direct calcination	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	20/03/1995	20/09/1995	See EN ISO 3451-1 ?
1	104-812	1878	Thermogravimetry of polymers : temperature scanning method	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	20/03/1995	20/09/1995	See EN ISO 7111
1	104-813	1769	Surface drying test : Ballotini method	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	01/03/1995	01/09/1995	See EN ISO 1517
3	104-815	12189	Determination of open time	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	R 13/97 Milan, 27-28/11/1997
1	104-816-1	12617-1	Determination of linear shrinkage for polymers and surface protection systems (SPS)	R 3/97 Paris, 28-29/04/97	15/09/1997	16/10/1997	16/04/1998	R 6/99 London, 25-26/11/1999
4	104-816-2	12617-2	Determination of shrinkage of polymer for injection products - Part 2 : Volumetric shrinkage	R 9/95 Paris, 28-29/09/95	13/09/1996	24/10/1996	24/04/1997	R 2/99 Oslo, 22-23/04/1999
3	104-816-3	12617-3	Determination of early age linear shrinkage for structural bonding agents	R 12/97 Milan, 27-28/11/97	03/06/1999	08/07/99	08/01/2000	R 7/2000 Zürich, 30-01/12/2000
2	104-816-4	12617-4	Determination of shrinkage and expansion	R 3/97 Paris, 28-29/04/97	16/04/1998	16/07/1998	16/01/1999	R 3/2000 Brussels, 13-14/04/2000
4	104-817	14406	Determination of the expansion ratio and expansion evolution	R 12/2001 Treviso, 18-19/10/2001	22/11/2001	14/03/2002	14/09/2002	
2	104-818	12190	Compressive strength	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	R 2/97 Paris, 28-29/04/1997
2	104-823	13412	Determination of elastic modulus in compression	R 12/97 Milan, 27-28/11/97	09/09/1998	19/11/1998	19/05/1999	R 3/2000 Brussels, 13-14/04/2000

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3	104-824	1770	Determination of coefficient of thermal expansion	R 1/94 Copenhagen, 27-28/04/94	07/11/1994	13/03/1995	13/09/1995	R 2/96 Paris, 28-29/03/1996
1	104-825	1781	Determination of viscosity	R 1/94 Copenhagen, 27-28/04/94	07/11/1994	21/12/1994	21/06/1995	See ISO 3219
4	104-827-1	12637-1	Compatibility of injection products with concrete	R 3/96 Paris, 28-29/03/96	13/09/1996	07/12/1996	07/05/1997	R 3/99 Oslo, 22-23/04/1999
4	104-827-3	12637-3	Effect of injection products on polymer inserts in concrete	R 5/2000 Brussels, 13-14/04/2000	20/09/2000	23/11/2000	23/05/2001	R 9/2001 Treviso, 18-19/10/2001
4	104-830	12614	Glass transition temperature	R 13/95 London, 18/12/95	13/09/1996	24/10/1996	24/04/1997	R 2/99 Oslo, 22-23/04/1999
2	104-832	13294	Determination of stiffening time	R 3/97 Paris, 28-29/04/97	17/04/1998	16/07/1998	16/01/1999	R 3/2000 Brussels, 13-14/04/2000
2	104-837	13057	Determination of capillary absorption	R 14/96 Gothenburg, 21-22/11/96	08/09/1997	16/10/1997	16/04/1998	R 3/2000 Brussels, 13-14/04/2000
2	104-838	13396	Measurement of chloride ingress	R 12/97 Milan, 27-28/11/97	09/09/1998	19/11/1998	19/05/1999	R 3/2000 Brussels, 13-14/04/2000
2	104-839	13295	Determination of resistance to carbonation	R 3/97 Paris, 28-29/04/97	17/04/1998	16/07/1998	16/01/1999	R 3/2000 Brussels, 13-14/04/2000
2	104-840-1	13687-1	Determination thermal compatibility - Part 1 : Freeze-thaw cycling with de-icing salt immersion	R 12/97 Milan, 27-28/11/97	03/06/1999	08/07/1999	08/01/2000	R 7/2000 Zürich,30-01/12/2000
2	104-840-2	13687-2	Determination thermal compatibility - Part 2 : Thunder - shower cycling (thermal shock)	R 12/97 Milan, 27-28/11/97	03/06/1999	08/07/1999	08/01/2000	R 7/2000 Zürich,30-01/12/2000
2	104-840-3	13687-3	Determination thermal compatibility -Part 3 : Thermal cycling without de-icing salt impact	R 12/97 Milan, 27-28/11/97	03/06/1999	08/07/1999	08/01/2000	R 7/2000 Zürich,30-01/12/2000
2	104-840-4	13687-4	Determination thermal compatibility - Part 4 : Dry thermal cycling	R 12/97 Milan, 27-28/11/97	03/06/1999	23/09/1999	23/03/2000	R 7/2000 Zürich,30-01/12/2000
1	104-840-5	13687-5	Determination thermal compatibility - Part 5 : Resistance to temperature shock	R 12/97 Milan, 27-28/11/97	03/06/1999	23/09/1999	23/03/2000	R 7/2000 Zürich,30-01/12/2000

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1	104-841	13529	Resistance to severe chemical attack	R 1/98 Paris, 29-30/04/98	31/12/1998	04/03/1999	04/09/1999	R 9/2001 Treviso, 18-19/10/2001
1	104-843	12191	Determination of impact resistance	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	See ISO 6271
2	104-845-1	13395-1	Determination of workability - Part 1 : Test flow of thixotropic mortars	R 12/97 Milan, 27-28/11/97	09/09/1998	03/12/1998	03/06/1999	R 4/2000 Brussels, 13-14/04/2000
2	104-845-2	13395-2	Determination of workability - Part 2 : Test flow of grout or mortar	R 12/97 Milan, 27-28/11/97	09/09/1998	18/03/1999	18/09/1999	R 4/2000 Brussels, 13-14/04/2000
2	104-845-3	13395-3	Determination of workability - Part 3 : Test flow of concrete	R 12/97 Milan, 27-28/11/97	09/09/1998	18/03/1999	18/09/1999	R 4/2000 Brussels, 13-14/04/2000
2	104-845-4	13395-4	Application overhead	R 5/98 Paris, 29-30/04/98	29/03/1999	13/05/1999	13/11/1999	R 7/2000 Zürich, 30-01/12/2000
2	104-846	1542	Pull off test	R 1/93 Lillehammer, 24-25/06/93	15/06/1994	13/07/1994	13/01/1995	R 8/95 Paris, 28-29/09/1995
3	104-847	12188	Determination of adhesion steel-to-steel	R 11/94 Milan, 17-18/11/94	01/09/1995	19/10/1995	19/04/1996	R 13/97 Milan, 27-28/11/1997
3	104-848	12636	Determination of adhesion concrete-to-concrete	R 9/95 Paris, 28-29/09/95	13/09/1996	07/12/96	07/05/1997	R 13/97 Milan, 27-28/11/1997
3	104-849	12615	Determination of slant shear strength	R 9/95 Paris, 28-29/09/95	13/09/1996	24/10/1996	24/04/1997	R 13/97 Milan, 27-28/11/1997
3	104-850	1799	Suitability for application test : vertical surfaces - horizontal surfaces	R 1/93 Lillehammer, 24-25/06/93	05/12/1994	09/01/1995	09/07/1995	R 8/96 Gothenburg, 21-22/11/96
3	104-851	13733	Test to determine the durability of structural bonding agents	R 8/98 Berlin, 26-27/11/98	28/07/1999	23/09/1999	23/03/2000	R 7/2000 Zürich, 30-01/12/2000
3	104-852-1	13894-1	Determination of fatigue under dynamic loading – Part 1 : during cure	R8/200 Zürich, 30-01/12/2000	27/09/2001	20/12/2001	20/06/2002	
3	104-852-2	13894-2	Determination of fatigue under dynamic loading – Part 2 : After hardening	R 7/99 London, 25-26/11/99	01/03/2000	20/04/2000	20/10/2000	R 04/2001 Helsinki, 26-27/04/2001
2	104-853-2	13584-2	Creep in compression	R 5/98 Paris, 29-30/04/98	22/03/1999	29/04/1999	29/10/1999	R 7/2000 Zürich, 30-01/12/2000

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4	104-854	1543	Determination of tensile strength development for polymers	R 1/93 Lillehammer, 24-25/06/93	15/06/1994	13/07/1994	13/01/1995	R 8/95 Paris, 28-29/09/1995
4	104-855	1771	Determination of injectability : in wet medium - dry medium	R 12/1993 Barcelone, 17-18/11/93	07/11/1994	13/03/1995	13/09/1995	R 8/96 Gothenburg, 21-22/11/96
4	104-856-1	12618-1	Adhesion and elongation capacity of ductile injection products	R 11/98 Berlin, 26-27/11/98	17/11/2000	21/12/2000	21/06/2001	R 4/2002 Copenhagen, 18-19/04/2002
4	104-856-2	12618-2	Determination of the adhesion of injection products, with or without thermal cycling : Tensile bond method	R 9/95 Paris, 28-29/09/95	13/09/1996	24/10/1996	24/04/1997	R 2/99 Oslo, 22-23/04/99
4	104-856-3	12618-3	Determination of the adhesion of injection products, with or without thermal cycling : slant shear method	R 9/95 Paris, 28-29/09/95	13/09/1996	24/10/1996	24/04/1997	R 2/99 Oslo, 22-23/04/99
4	104-857	14068	Determination of watertightness of injected cracks without movement in concrete.	R 5/2000 Brussels, 13-14/04/2000	20/09/2000	23/11/2000	23/05/2001	R 11/2001 Treviso, 18-19/10/2001
5	104-859	1881	Pull-out test	R 1/93 Lillehammer, 24-25/06/93	15/06/1994	20/03/1995	20/09/1995	
5	104-860	1544	Determination of creep under tensile strength	R 1/93 Lillehammer, 24-25/06/93	15/06/1994	13/07/1994	13/01/1995	
1	104-862	13062	Determination of thixotropy of products for protection of reinforcement	R 3/97 Paris, 28-29/04/97	15/09/1997	16/10/1997	16/04/1998	R 6/99 London, 25-26/11/1999
1	104-868	13578	Compatibility between coating and water-saturated surface dry concrete	R 1/98 Paris, 29-30/04/98	31/12/1998	15/04/1999	15/10/1999	R 03/2001 Helsinki, 26-27/04/2001
1	104-869	13579	Drying test for hydrophobic porelining impregnation	R 1/98 Paris, 29-30/04/98	31/12/1998	06/05/1999	06/11/1999	R 7/2000 Zürich,30-01/12/2000
1	104-870	13580	Water absorption and resistance to alkali test for hydrophobic porelining impregnation	R 1/98 Paris, 29-30/04/98	31/01/1999	15/04/1999	15/10/1999	R 7/2000 Zürich,30-01/12/2000
1	104-871	13581	Determination of loss of mass after freeze-thaw salt stress – Testing of impregnated hydrophobic concrete	R 1/98 Paris, 29-30/04/98	22/01/1999	06/05/1999	06/11/1999	R 7/2000 Zürich,30-01/12/2000
4	104-872	14117	Determination of viscosity of cimentitious injection products	R 5/2000 Brussels, 13-14/04/2000	20/09/2000	25/04/2002	25/10/2002	
4	104-873	14497	Determination of the filtration stability	R 12/2001 Treviso, 18-19/10/2001	07/12/2001	20/06/2002	20/12/2002	
4	104-874	14498	Volume and weight changes after air drying and water storage cycles	PV 18 Helsinki, 26-27/04/2001	15/02/2002	20/06/2002	20/12/2002	