

DIN EN 14227-2:2013-08 (E)

Hydraulically bound mixtures - Specifications - Part 2: Slag bound granular mixtures

Contents	Page
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Symbols and abbreviated terms	7
5 Constituents	7
5.1 Aggregates	7
5.2 Granulated blast furnace slag	8
5.3 Partially ground granulated blast furnace slag	8
5.4 Ground granulated blast furnace slag	8
5.5 Water	8
5.6 Activators	8
6 Slag bound granular mixtures	8
6.1 Types	8
6.2 Slag bound granular mixture 1	8
6.3 Slag bound granular mixture 2	9
6.4 Slag bound granular mixture 3	9
6.5 Slag bound granular mixture 4	10
6.6 Slag bound granular mixture 5	10
6.7 Examples of slag bound granular mixture	10
6.8 Water content of mixtures	10
6.9 Proportioning of the constituents, grading and dry density for mixtures	10
6.10 Other requirements for fresh mixtures	11
6.10.1 Compacity	11
6.10.2 Immediate bearing index	11
6.10.3 Workability period	11
7 Laboratory mechanical performance classification	11
7.1 General	11
7.2 Classification by California bearing ratio	12
7.3 Classification by compressive strength	12
7.4 Classification by Rt, E	14
7.4.1 General	14
7.4.2 Method by direct tensile testing	14
7.4.3 Method by indirect tensile testing	14
7.4.4 Method by indirect tensile and compression testing	14
8 Other requirements for the mixture	15
8.1 Strength after immersion in water	15
8.2 Other characteristics	15
9 Production control	15
10 Designation and description	15
10.1 Designation	15
10.2 Description	16

11	Marking and labelling	16
12	Figures	17
Annex A (normative) Hydraulic activity of granulated and partially ground granulated blast furnace slag		24
A.1	Hydraulic activity	24
A.2	C.A product	24
A.3	Alpha coefficient of granulated blast furnace slag	24
A.4	Fines content of partially ground granulated blast furnace slag	25
Annex B (informative) Examples of slag bound granular mixtures		26
Annex C (normative) Compacity of a slag bound granular mixture 2		27
Annex D (normative) CBR value of slag bound granular mixtures		28
D.1	Sampling and preparation of the test samples	28
D.2	Specimen manufacture and curing	28
D.3	Calculation and expression of results	28
Annex E (informative) Production control for slag bound granular mixtures		29
E.1	General	29
E.2	Quality manual	29
E.3	Organisation	29
E.3.1	Responsibility and authority	29
E.3.2	Management representative	29
E.3.3	Internal audits	29
E.3.4	Management review	30
E.3.5	Sub-contract services	30
E.3.6	Records	30
E.3.7	Training	30
E.4	Control procedures	30
E.4.1	Production management	30
E.4.2	Composition of the mixture	31
E.4.3	Constituents	31
E.4.4	Process control	31
E.4.5	Inspection, calibration and control of process equipment	31
E.4.6	Handling and delivery	32
E.5	Inspection and testing of constituents and mixtures during production	32
E.5.1	General	32
E.5.2	Characteristics that require control during production	32
E.5.3	Frequency of sampling the mixture	33
E.6	Inspection and testing equipment	33
E.6.1	General	33
E.6.2	Measuring and testing equipment	33
E.6.3	Measuring and testing equipment in the process	33
E.6.4	Measuring and testing equipment in laboratory	33
E.7	Non-conformity	34
E.7.1	General	34
E.7.2	Non-conformity of constituents	34
E.7.3	Non-conformity of the mixture	34
Bibliography		35