

DIN EN 14227-3:2013-08 (E)

Hydraulically bound mixtures - Specifications - Part 3: Fly ash bound granular mixtures

Contents		Page
Foreword		4
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Symbols and abbreviated terms	7
5	Constituents	8
5.1	Aggregates	8
5.2	Fly ash	8
5.3	Lime	8
5.4	Cement	8
5.5	Gypsum	8
5.6	Granulated blast furnace slag	8
5.7	Other constituents	8
5.8	Water	9
6	Fly ash bound granular mixtures	9
6.1	Types	9
6.1.1	Fly ash bound granular mixture 1	9
6.1.2	Fly ash bound granular mixture 2	9
6.1.3	Fly ash bound granular mixture 3	9
6.1.4	Fly ash bound granular mixture 4	10
6.1.5	Fly ash bound granular mixture 5	10
6.1.6	Fly ash bound granular mixture 6	10
6.1.7	Examples of fly ash bound granular mixtures	10
6.2	Water content of mixtures	10
6.3	Proportioning of the constituents, grading and dry density	11
6.4	Other requirements for the fresh mixture	11
6.4.1	Compacity	11
6.4.2	Immediate bearing index of the mixture	11
6.4.3	Workability period	11
7	Laboratory mechanical performance classification	12
7.1	General	12
7.2	Classification by compressive strength	12
7.3	Classification by R_t , E	13
7.3.1	General	13
7.3.2	Method by direct tensile testing	14
7.3.3	Method by indirect tensile testing	14
7.3.4	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) Compacity of a fly ash bound granular mixture 2		26
Annex B (informative) Examples of fly ash bound granular mixtures using siliceous fly ash		27
Annex C (informative) Examples of fly ash bound granular mixtures using calcareous fly ash		28
Annex D (informative) Production control for fly ash bound granular mixtures		29
D.1	General	29
D.2	Quality manual	29
D.3	Organisation	29
D.3.1	Responsibility and authority	29
D.3.2	Management representative	29
D.3.3	Internal audits	29
D.3.4	Management review	30
D.3.5	Sub-contract services	30
D.3.6	Records	30
D.3.7	Training	30
D.4	Control procedures	30
D.4.1	Production management	30
D.4.2	Composition of the mixture	31
D.4.3	Constituents	31
D.4.4	Process control	31
D.4.5	Inspection, calibration and control of process equipment	31
D.4.6	Handling and delivery	32
D.5	Inspection and testing of constituents and mixtures during production	32
D.5.1	General	32
D.5.2	Characteristics that require control during production	32
D.5.3	Frequency of sampling the mixture	32
D.6	Inspection and testing equipment	33
D.6.1	General	33
D.6.2	Measuring and testing equipment	33
D.6.3	Measuring and testing equipment in the process	33
D.6.4	Measuring and testing equipment in laboratory	33
D.7	Non-conformity	34
D.7.1	General	34
D.7.2	Non-conformity of constituents	34
D.7.3	Non-conformity of the mixture	34
Bibliography		35