

# DIN EN 413-1:2011-07 (E)

## Masonry cement - Part 1: Composition, specifications and conformity criteria

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
1 Scope .....		6
2 Normative references .....		6
3 Terms and definitions .....		7
4 Notation .....		8
5 Requirements .....		8
5.1 General .....		8
5.2 Constituents and composition .....		8
5.3 Physical and mechanical requirements .....		9
5.3.1 Fineness (sieve residue) .....		9
5.3.2 Initial setting time .....		9
5.3.3 Final setting time .....		9
5.3.4 Soundness .....		9
5.3.5 Fresh mortar requirements .....		9
5.3.6 Compressive strength .....		10
5.4 Chemical requirements .....		10
5.5 Durability requirements .....		11
6 Standard designation .....		11
7 Conformity criteria .....		11
7.1 General requirements .....		11
7.2 Conformity criteria for physical, mechanical and chemical properties and evaluation procedure .....		12
7.2.1 General .....		12
7.2.2 Statistical conformity criteria .....		12
7.2.3 Single result conformity criteria .....		16
7.3 Conformity criteria for masonry cement composition .....		17
the EU Construction Products Directive .....		19
Bibliography .....		26
Tables Table 1 -- Composition of masonry cements .....		9
Table 2 -- Fresh mortar requirements given as characteristic values .....		10
Table 3 -- Compressive strength requirements given as characteristic values .....		10
Table 4 -- Chemical requirements given as characteristic values .....		11
Table 5 -- Properties, test methods and minimum testing frequencies for the autocontrol testing by the manufacturer, and the statistical assessment procedure .....		13
Table 6 -- Required values of Pk and CR .....		14

<b>Table 7 -- Acceptability constant .....</b>	<b>15</b>
<b>Annex A (informative) Water-soluble hexavalent chromium .....</b>	<b>18</b>
<b>Annex ZA (informative) Clauses of this European Standard addressing the provisions of Table 8 -- Values of cA .....</b>	<b>16</b>
<b>Table 9 -- Limit values for single results .....</b>	<b>17</b>
<b>Table ZA.1-- Harmonised clauses .....</b>	<b>20</b>
<b>Table ZA.2-- System of attestation of conformity .....</b>	<b>21</b>
<b>Table ZA.3-- Assignment of evaluation of conformity tasks for masonry cement under system 1+ ...</b>	<b>22</b>