

Summary of test certificates - CTS product line

CEMENT ALL

| No. of test certificate | Applicable norm/test | Type of test | Result | Demand* |
|-------------------------|---|---|---|--|
| 0-54/0696-A/12 | DIN EN 1015-3 | slump | 230 mm | [NPD] |
| | DIN EN 196-3 | initial set | 27 min. | [NPD] |
| | DIN EN 196-3 | final set | 36 min. | [NPD] |
| 0-54/0696-A/12 | DIN EN 1015-11 | flexural strength after 28 days | 11,25 N/mm ² | [NPD] |
| 0-54/1526-A/13 | DIN EN 12190 | compressive strength after 1 day | 62,1 N/mm ² | [NPD] |
| | DIN EN 12190 | compressive strength after 3 days | 69,9 N/mm ² | [NPD] |
| | DIN EN 12190 | compressive strength after 7 days | 78,1 N/mm ² | [NPD] |
| | DIN EN 12190 | compressive strength after 28 days | 87,0 N/mm ² | ≥ 45 N/mm ² |
| 0-54/1526-A/13 | DIN EN 1015-17 | determination of chloride contents | 0,014 M.-% | ≤ 0,05 M.-% |
| 0-54/0696-A2/12 | test - sulfate resistance acc. to Wittekindt | | 0,34 mm/m | ≤ 0,5 mm/m |
| 0-54/0696-A3/12 | test - frost/deicer resistance - CDF procedure | | 552 g/m ² | ≤ 1500 g/m ² |
| 0-54/0696-A4/12 | DIN EN 12390-8 | test - water penetration depth | 6 mm | ≤ 30 mm |
| 0-54/0696-A5/12 | test - penetration depth of water endangering substances acc. to DAfStb-guideline | | 16 mm | [n.b.] |
| 0-54/1526-A/13 | DIN EN 1542 | test - bond strength | 3,3 N/mm ² | ≥ 2,0 N/mm ² |
| 0-54/0129/14 | DIN EN 13454-2 | determination of pH-value | 10,9 | [NPD] |
| | DIN EN 38414-4 DIN EN 13454-2 | determination of pH-value after 7 days | 11,5 | [NPD] |
| 0-54/1526-A/13 | DIN EN 13412 | static modulus of elasticity | 35900 N/mm ² | ≥ 20000 N/mm ² |
| 2-54/2220/14 | DIN EN 12617-4 | determination of shrinkage | 2,6 N/mm ² | ≥ 2,0 N/mm ² |
| | | determination of expansion | 2,6 N/mm ² | ≥ 2,0 N/mm ² |
| | DIN EN 13057 | determination of resistance of capillary absorption | 0,12 kg/m ² h ^{0,5} | ≤ 0,5 kg/m ² h ^{0,5} |

*[NPD] - no performance determined

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KORODUR Westphal Hartbeton GmbH & Co. KG

Zentrale/head office
Wernher-von-Braun-Str. 4
92224 Amberg
Tel.: +49 (0) 96 21/47 59-0
Fax: +49 (0) 96 21/3 23 41
info@korodur.de

Handelsregister/registration
Amberg HRA 1291
Geschäftsführer / managing director
Johannes Heckmann
USt.-ID-Nr. DE 131 827 976
St.-Nr. 201/166/04001

www.korodur.de

Komplementär/general partner
Hartbetonbau KORODUR GmbH
Sitz: Amberg
Handelsregister/registration
Amberg HRB 371