Title (en)

CORE-FACING CONCRETE ELEMENT, METHOD FOR THE PRODUCTION OF SAME, AND USE OF LATENT HYDRAULIC OR POZZOLANIC BINDER IN THE CORE LAYER

Title (de)

KERN-VORSATZ-BETONELEMENT, VERFAHREN ZU SEINER HERSTELLUNG UND VERWENDUNG VON LATENT HYDRAULISCHEM ODER PUZZOLANISCHEM BINDEMITTEL IN DER KERNSCHICHT

Title (fr)

ÉLÉMENT NOYAU-PAREMENT EN BÉTON, PROCÉDÉ POUR SA PRODUCTION ET UTILISATION D'UN LIANT HYDRAULIQUE OU POUZZOLANIQUE LATENT DANS LA COUCHE DE NOYAU

Publication

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Application

EP 22743781 A 20220630

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- EP 2022068093 W 20220630

Abstract (en)

[origin: CA3224132A1] The invention relates to a concrete element comprising a concrete core layer and a concrete facing layer, wherein: the concrete element is obtained by compressing and curing a concrete core layer mixture in contact with a concrete facing layer mixture; the concrete core layer mixture contains a latent hydraulic core binder and/or a pozzolanic core binder, water, a granular core material and an alkali core curing agent; the concrete facing layer mixture contains a latent hydraulic facing binder and/or a pozzolanic facing binder, water, a granular facing material and an alkali facing curing agent; and the concrete element has a compressive strength in accordance with DIN EN 12390-3, in particular DIN EN 12390-3:2019-10, measured after 28 days, of less than 120 N/mm2. The invention also relates to a method for producing the concrete element and to the use of a latent hydraulic binder and/or pozzolanic binder together with an alkali curing agent to produce the concrete core layer in the concrete element.

IPC 8 full level

C04B 28/00 (2006.01); B28B 1/00 (2006.01); B28B 11/08 (2006.01); B28B 13/02 (2006.01); C04B 28/02 (2006.01); C04B 111/10 (2006.01)

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C-Set (source: EP)

1. C04B 28/006 + C04B 12/04 + C04B 18/08 + C04B 40/0046 + C04B 40/0067 + C04B 40/0071
2. C04B 28/008 + C04B 24/121 + C04B 40/0046 + C04B 40/0067 + C04B 40/0071
3. C04B 28/006 + C04B 12/04 + C04B 14/047 + C04B 14/062 + C04B 14/064 + C04B 14/08 + C04B 14/106 + C04B 14/16 + C04B 14/18 + C04B 14/22 + C04B 14/28 + C04B 18/067 + C04B 18/08 + C04B 20/0076 + C04B 20/008 + C04B 22/0093 + C04B 22/062 + C04B 22/10 + C04B 2103/0088
4. C04B 28/006 + C04B 12/04 + C04B 18/141 + C04B 18/142 + C04B 18/144 + C04B 18/145 + C04B 20/0076 + C04B 20/008 + C04B 22/0093 + C04B 22/062 + C04B 22/10 + C04B 2103/0088
5. C04B 28/008 + C04B 14/047 + C04B 14/062 + C04B 14/064 + C04B 14/08 + C04B 14/106 + C04B 14/16 + C04B 14/18 + C04B 14/22 + C04B 14/28 + C04B 18/067 + C04B 18/08 + C04B 20/0076 + C04B 20/008 + C04B 24/121 + C04B 2103/0088
6. C04B 28/008 + C04B 18/141 + C04B 18/142 + C04B 18/144 + C04B 18/145 + C04B 20/0076 + C04B 20/008 + C04B 24/121 + C04B 2103/0088
7. C04B 28/02 + C04B 12/005 + C04B 12/04 + C04B 14/16 + C04B 14/18 + C04B 14/22 + C04B 14/28 + C04B 18/067 + C04B 18/08 + C04B 18/141 + C04B 20/0076 + C04B 20/008 + C04B 22/0093 + C04B 22/062 + C04B 22/10 + C04B 2103/0088
8. C04B 28/02 + C04B 12/005 + C04B 14/047 + C04B 14/06 + C04B 14/062 + C04B 14/064 + C04B 14/08 + C04B 14/106 + C04B 18/142 + C04B 18/144 + C04B 18/145 + C04B 20/0076 + C04B 20/008 + C04B 24/121 + C04B 2103/0088

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