



Developmental Product Data

CA-470 TI Temperature Independent Cement

Chemical Composition		typical
Al ₂ O ₃	[%]	72
CaO	[%]	27
Na ₂ O	[%]	0.2
SiO ₂	[%]	0.2
Fe ₂ O ₃	[%]	0.1
MgO	[%]	0.2

Fineness (CILAS)		typical
- 45 μm		90 %
d50		7 μm

All data are based upon Almatris standard test methods.

Product Concept

- 70 % alumina cement
- additive free
- for lcc and ulcc, using dispersion systems
- without or with silica fume
- narrow range of setting time from 5 to 35 °C ambient temperature
- avoids the ultra long setting time at 5 to 10 °C ("never setting")
- no addition of accelerator required on site at low ambient temperatures

Product Properties

- more hygroscopic vs. CA-14 or CA-270
- packed in sealed plastic bags
- shelf life min. 1 year
- lab storage of pure CA-470 TI:
 - properly closed containers
 - not in open boxes
- CA-470 TI in dry mixed castables:
 - packed in standard bags (paper-plastic foil-paper)
 - 1 year shelf life, if properly stored



CA-470 TI

Product Properties

- Requires higher share of retarding additives, e.g.
 - 0.8 % ADS 3 + 0.2 % ADW 1 for lcc without silica fume
 - 1.0 % M-ADS 3 (NEW) for lcc with silica fume
 - 0.5 % M-ADS 3 (NEW) + 0.2 % M-ADW 1 for ulcc with silica fume

Samples available:

- 25 kg plastic bags
- or smaller units



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