

Calcium Sulfoaluminate Accelerator For Cement based Systems

CALUMEX® QUICK

- Rapid setting times
- High early strength development
- Increased strength over time
- Shrinkage compensation
- Improved resistance against sulfate or alkali
- Based on high quality Ye'elemite C.S.A.

Calumex® Quick is a cement accelerator used as an additive to Portlandcement based systems. It is normally applied at a 25% replacement of the cement content to obtain a cement binder that has fast setting times, accelerated drying and high early strength development. Furthermore, Calumex® Quick provides shrinkage compensation through positive expansion.

Systems based on Calumex® Quick are stable over time, with late strength development also being improved. The application of Calumex® Quick also provides an improved resistance to sulfate attack or other aggressive substances.

Applying Calumex® Quick will lower the alkalinity of the cement matrix, making it more suited for glass fiber reinforced cement applications. pH will remain sufficiently high to protect steel rebar or fibers.

Calumex® Quick has a wide variety of possible applications where a rapid set and high early strengths are required. Possible applications include:

- *Rapid repair mortars*
- *Fast setting tile adhesives and grouts*
- *Shotcrete*
- *Self-smoothing and self-levelling mortars*
- *Anchor bolt*
- *Any variety of non-shrink grouts.*

Technical information

Setting Times : (min)

Initial: ≥ 1:40

Final: ≥ 3:00

When mixed with Portlandcement 52,5R at a 1:2 ratio (wcf 0,4), the following early strengths can be achieved:

	6 hours	24 hours	72 hours
Compressive Strength	≥ 20,00	≥ 30,00	≥ 35,00
Flexural Strength	≥ 3,00	≥ 3,50	≥ 4,00

MPa

Applying the above indicative mixing ratio, setting times will be reduced from 3-4 hours to several minutes. If needed, the setting times can be easily adjusted by applying commonly used cement retarding agents such as citric or tartaric acid.

The values given above are indications and will depend on the type and source of sulfate and Portlandcement used. Always carefully test your mixes before applying them in practice.

The information given above is based on our current experiences and knowledge of the product. It gives no guarantee of the eventual result. The customer remains responsible for testing the product before use. Caltra Nederland B.V. cannot be held responsible for possible damage caused by (incorrect) use of its products. For additional information with regard to safe use, please consult the Material safety datasheet (SDS)

