Technical Data Sheet
Fast Set Render

ULTRATEX
WALL CLADDING & COATING

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Description

Fast set render hardens in a few hours, and has high resistance to abrasion. The important heat of hydration released during the first hours turns Fast set render into a very cold climate cement. Fast set render does not release calcium hydroxide during its hydration and, therefore, it has excellent resistance to the chemical and bacteriological attacks. Fast set render is a hydraulic binder with versatile properties used in the building chemistry. In ternary mixtures, calcium sulphate regulates voluntarily the rapidity of the drying time and the dimensional control, as much regarding to retraction as to expansion. Fast set render also is a highly refractory cement (1.300ºC).

Not recommended for

- Pre-stressed concrete
- Mass concrete in large volumes
- Soil stabilization or cement-treated bases for roads.
- Mortars and concretes in contact with media that can release alkali

Precautions

- In view of its high reactivity, mortars and concretes with Fast Set Render must be cured during the first 24 hours. Minimum cement dosage of 400kg/m3. Maximum water/cement ratio of 0,40.
- Clean aggregates with few fines under 0,2mm, and not capable of releasing alkali.
- Ensure good compacting of the concrete.

Handling and Storage

- Available in bags of 25 kg o
- The bags should be stored in dry and ventilated places.
- Bulk storage should take place in sealed silos

Cement features:

Clinker: 100 %

Usual value	Specification	Usual value	Specification	Usual value	Specification
Al_2O_3 41,5%	35%≤Al_2O_3≤58%	FeO 4,5%	-	S^{2-} 0,05%	≤0,10%
CaO 38,0%	-	SiO_2 3,0%	-	SO_3 0,10%	≤0,5%
Fe_2O_3 10,5%	-	Cl^- 0,01%	≤0,10%	Alcalis ≤0,10%	≤0,4%

Usual value	Specification
Compressive strength6h(MPa): 55	≥18,0
Initial setting time(min): 200	≥90
Compressive strength24h(MPa): 70	≥40,0
Final setting time(min): 220	≤720
Blaine specific surface (cm^2/g):	3100

Additional properties:

Main mineralogical component: $CaAl_2O_4$

Secondary mineralogical components: Ca_2FeAlO_5, $Ca_{12}Al_{14}O_{33}$, ß-Ca_2SiO_4, $Ca_3TiFe_2O_8$, FeO

Laser Particle Size D (v,0.9) (µm): less than 70 micros

Bulk density (g/cm^3): 1,1

Cono Seger: 9 (1315ºC)

Specific gravity (g/cm^3): 3,2

Recommended for mortars and Concrete's

That harden rapidly, even in cold weather. That are resistant to the attack of sulphates and certain acids (pH4). Quimical/bacteriological resistance. That are resistant to abrasion and the mechanical impact. Products made for the construction chemistry industry that are characterized by rapid setting and hardening (water leak sealers, adhesives, repair mortars, grouts, self-levelers, etc.) and by rapid hardening and drying with dimensional control (self-levelers, grouts, etc.). That are refractory, refractory-insulators and even resistant to the thermal shock.