



SMART^{UP}

**HIGH-PERFORMANCE FIBER
MORTAR**

ARCHITECTURE, DESIGN, STRUCTURAL
ENGINEERING AND BUILDINGS



**SMART^{UP} DESIGN
TECHNICAL SHEET**

SMART^{UP} DESIGN

HIGH-PERFORMANCE FIBER MORTAR



Self-compacting



Can be applied in thin layers



Can be tinted



Various surface aspects possible



Durability

Storage

Keep for 6 months in sealed bags, protected from moisture

Packaging

25 kg bag - pallet of 48 bags



USE AREA

Destination

Self-compacting mortar for casting thin prefabricated panels:

- Cladding slab.

The addition of fibers and colorants depends on the intended application.

CHARACTERISTICS AND PERFORMANCE

Mortar powder characteristics

- Appearance:
 - White or Gray powder
- Apparent density:
 - Approx. 1450kg/m³ (12.1 lb/gal)

Mixed mortar characteristics

- Maximum granulometry:
 - 1.5 mm (0.06 in)
- Mixing ratio:
 - 11%
- Mixing time:
 - 10 minutes (Hobart-type planetary mixer at speed 1)
- Mixed mortar density:
 - Approx. 2300kg/m³ (19.19 lb/gal)
- Abrams mini cone spread:
 - 34 to 40 cm (13.4 in to 15.75 in)
- Consistency maintained for over 45 minutes

PREPARATION

Mixing protocol

For 100 liters of mortar:

- 200 kg (440 lbs) of powder + 22 liters of water
- Incorporate the dry mortar into the previously wet and drained mixer.
- t=0 add water
 - t=10mn end of mixing

Mixing time may be adjusted according to the mixer used.

When adding reinforcing fibers, we recommend incorporating the fibers 5 min after the start of mixing.

Preliminary tests should be carried out to determine any necessary adjustments to water quantity and mixing time (within +/-1%).

Application conditions

Application temperature:

- +5°C to +30°C (-15°F to -1°F)

Precautions for use

Contains cement: wear gloves.

Refer to package instructions.

Performance of unfibrated hardened mortar (white or gray)	At 28 days
Flexural strength (Rf) <i>Prism 4x4x16cm</i>	11MPa
Compressive strength (Rc) <i>Prism 4x4x16cm</i>	75 MPa
Shrinkage (Rt) <i>4x4x16cm</i>	0.600 mm/m (0,007 in/ft)

