



# UNISOLANT™

## The solution for insulating formwork structures

Unisolant™ concrete was specifically developed for use in insulating formwork walls. Unisolant's formula makes it possible to produce concrete whose fluidity is ideally suited to insulating formwork systems, without segregation.

### Placement

The placement of Unisolant™ concrete requires conventional equipment, i.e. a pump, concrete bucket or directly from the concrete mixer. A 100-mm pump with a 75 mm reducer is recommended. The concrete's free-fall height must be no more than 2.5 m while the height of lifts must be limited to 1.2 m. The use of a vibrator requires that the lift height be reduced to 0.6 m. For additional details, refer to the insulating formwork manufacturer's installation manual.

### Curing

The properties of expanded polystyrene panels facilitate the placement of Unisolant™ concrete under winter conditions and optimize curing. The use of admixtures to accelerate setting is generally not required.

### Fluidity

Unisolant™'s slump can be adapted to the specific placement requirements for each work site. Unisolant™ is generally delivered with a nominal slump of 100 mm, which is then adjusted to the client's specific requirements on the work site using a superplasticizer (slump generally requested is 150 +/- 30 mm).

## Fire resistance

Unisolant™ contains polypropylene microfibres, which increase the fire resistance of concrete for insulating formwork. The presence of microfibres also increases ductility, resistance to spalling and reduces bleeding.

## Technical characteristics

Characteristics	Unisolant™
Slump	150 +/- 30 mm
Compressive strength at 24 hours <sup>1</sup>	5 to 10 MPa
Compressive strength at 28 days <sup>2</sup>	25 MPa
Compressive strength at 56 days	30 MPa
Water/cement ratio	< 0.65
Type of cement	GU or GUb-F
Aggregate size <sup>3</sup>	14 mm

Notes:

1 Variable based on period of year

2 Compressive strengths of 30 and 35 MPa at 28 days are also available.

3 10 mm aggregate size is also available.



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