

## Guidelines for Installation during cold temperatures

### Introduction

With any screed installation, best practices should be adhered to and precautions need to be put in place when working in cold weather conditions.

During the winter months when the temperature can drop below 5°C extra care must be taken to ensure that Longfloor IntegraCure liquid cement screed can perform to the highest standards.

European standards stipulate (EN8204 Part 7:2003 section 7.2.2 - temperature) that the temperature of both the base slab and the air in the area that concrete, or screed is to be installed should always remain in the range 5°C to 30°C. This applies to the period of time that the material is being installed and also subsequently for at least 72 hours.



NHBC regulations 2017 (section 9.3.4) advise that screed should not take place during warm weather conditions which could adversely affect the finished construction.

When installing Longfloor IntegraCure screed in very cold conditions please note this may result in increased setting times.

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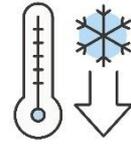
Longfloor is the registered trade name of Longfloor binder for a liquid cement screed.



# Temperature

When working with Longfloor liquid cement screed in cold temperatures three factors should be considered before installation:

**Ambient Temperature** - Longfloor should not be installed at ambient temperatures 5°C on a falling thermometer or below at 3°C on a rising thermometer.



**Concrete Temperature** - The temperature of Longfloor on the day of delivery shall not be less than 5°C and should be maintained for at least 48hrs after installation to enable it to achieve sufficient strength. If Longfloor is installed in temperatures less than 5°C this will severely reduce strength development in its hardened state

**48h**

**Ground Temperature** – Longfloor should not be installed on frozen substrates or against any frozen surface.

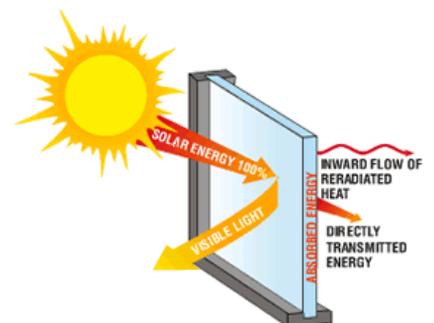


**Please be aware** - Thermal shock may result from rapid drops in the temperature of exposed Longfloor IntegraCure screed especially when the screed has been placed on a mild day followed by a freezing night.

## Solar Heat Gain

When solar radiation is admitted through a window, door or skylight – either transmitted directly and/or absorbed, and subsequently releases extra heat inside a building. The heat absorbed in the screed can cause long term shrinkage, cracking and curling.

**It is always advised that all glazing should be covered to protect the screed and to reduce the risk of potential problems arising due to solar heat gain**



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