UNDERFLOOR HEATING

Nu-Heat UNDERFLOOR & RENEWABLES

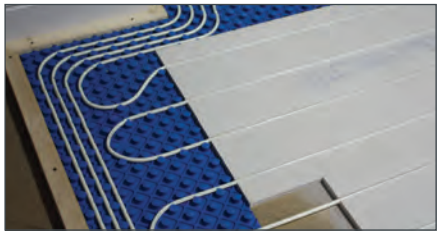
Information sheet

LoPro™QuickSet self-levelling compound

The low height build-up of Nu-Heat's LoPro™ floor constructions make them an ideal solution for retrofit underfloor heating projects and specific new build applications.

LoPro™QuickSet self-levelling compound

LoPro™Max – castellated panel and self-levelling compound covers the entire floor



LoPro™10 – castellated panel carries the Fastflo™ pipe to and from the manifold.

LoPro™QuickSet self-levelling compound

LoPro™QuickSet self-levelling compound is supplied by Nu-Heat as part of the package. It is a single part cement-based floor leveller containing a compound of specially graded fillers, fine cements and polymers, specially formulated for use with Nu-Heat's LoPro™ underfloor heating systems. Please consult the packaging for detailed usage instructions.

LoPro™Max – consists of a self-adhesive, vacuum formed castellated polystyrene sheet designed to hold 10mm Fastflo™ underfloor heating pipe in place across the entire floor before being covered with LoPro™QuickSet self-levelling compound.

LoPro™10 – consists of routed gypsum fibre boards into which Nu-Heat's Fastflo™ underfloor heating pipe is inserted. The underfloor heating pipe flows and returns are held in place by the same self-adhesive castellated polystyrene sheet, which is filled with LoPro™QuickSet self-levelling compound.

PREPARATION OF SUB-FLOOR BEFORE FIXING CASTELLATED PANEL

- The floor area should be clean, dry, free from dust, loose particles, oil and any other substances that may compromise the bond.
- Prime the floor before fixing the castellated panel using EcoPrim T (available from Nu-Heat) or a PVA primer.
- Failure to seal gaps around the edge of the area to be filled will result in leakage of the self-levelling compound and sink marks.
- LoPro™Max only – The substrate must be strong enough to support the weight of the LoPro™QuickSet self-levelling compound plus chosen floor covering. For more information see the Nu-Heat datasheet, *LoPro™Max – Floor Loading Information*.

MIXING

Using a slow speed drill and paddle mix the self levelling compound with 4.5–4.75 litres of clean water in a suitable container for approximately 3-5 minutes until a homogenous, lump free mixture is obtained. The mix should be left to rest for 2-3 minutes then re-stirred ready for use.

Do not mix a quantity greater than can be used within the 30–40 minute working time, and do not re-wet. Using a different water volume than that specified on the packaging will alter the consistency, flatness, strength and setting time of the self-levelling compound. The compound can be mixed and laid on a room-by-room basis.

LoPro™Max only – For large floor areas, typically greater than 100m^2, it may be more practical and cost-effective to use one of Nu-Heat's national screed contractors, please contact your Account Manager for details.

STORAGE

LoPro™QuickSet has a storage life of approximately 12 months from the date of production in dry conditions; this is printed on the package. Protect from Humidity.

APPLICATION

The LoPro™QuickSet self-levelling compound should be poured onto the castellated panel in a single coat and lightly trowelled with a large plastic float to achieve a smooth surface. Apply at a minimum floor temperature of +5˚C. In large areas all movement joints present in the substrate must be followed and control joints inserted every 40m² approx. For full installation details, please refer to the installation manual.

DRYING

At normal temperatures LoPro™QuickSet will take light foot traffic after 3 hours and accept bonded floor coverings from 24 to 72 hours. A room temperature of +13 to +18°C should be maintained with a subfloor temperature of at least +5°C (a passage of air will considerably assist the drying times). For greater thickness and/or low temperature an extended drying time could be required.

CLEANING

All tools and mixing containers should be washed and cleaned immediately after use, before material hardens.

USE WITH UNDERFLOOR HEATING

The floor heating must not be used to accelerate the floor drying process. Depending on the external temperature, the floor heating can be turned on 48-72 hours after the self-levelling compound has been poured. Set the heating mixing valve (or heat pump maximum flow temperature) to 40˚C and increase the temperature daily by 5˚C to the flow temperature specified by Nu-Heat.

HEALTH & SAFETY

LoPro™QuickSet contains cement that, when in contact with sweat or other bodily liquids, causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. The use of protective gloves and goggles is recommend. Always take the usual precautions for handling chemicals.

For further and complete information about this product please refer to the latest version of our *Safety Data Sheet*.

PRODUCT FOR PROFESSIONAL USE

QUALITY ASSURANCE

LoPro™QuickSet complies with the requirements of Regulation 1907/2006/EC, Annex XVII.

TECHNICAL DATA – LoPro™QuickSet	
Coverage	LoPro™Max – 1 bag =0.74m² of castellated panel – see quote LoPro™10 – 1 bag =1.2m² of castellated panel – see quote Coverage will vary if sub-floor is not level.
Consistency:	Fine powder
Colour:	Grey
Bag size:	25kg
Working time:	30-40 minutes at 23˚C
Setting time:	50-70 minutes
Time to foot traffic:	3 hours at 20˚C
Time to covering:	24-72 hours dependent on thickness and temperature
Dry solid content:	100%
Bulk density:	1,300kg/m²
Customs Class:	3824 50 90
Shelf life:	12 months in unopened package in a dry environment
Suitable for pump application:	Yes
Mixing ratio:	Approx. 18-19 parts water per 100 parts by weight of LoPro™QuickSet
Min/max thickness:	3mm – 30mm per coat
Density of mix:	2,050kg/m²
Application temperature range:	+5˚C to +30˚C
Compressive strength (N/mm²):	1 day = 20.0; 7 days = 25.0; 28 days = 35.0
Flexural strength (N/mm²):	1 day = 3.5; 7 days = 5.0; 28 days = 8.0

For more information and to see a short LoPro™Max installation video visit www.nu-heat.co.uk/installLPM