EDILTEC® Canada

# FLOOR

Polystyrene beads and ready to use bags

# WHAT YOU CAN DO WITH **EDILTECO®**


# POLITERM® BLU FEIN

... a versatile product!

Diameter
2/3 mm
0.08/0.12
in

## SUPERLIGHT THERMAL INSULATING AGGREGATE WITH FINE GRAIN *

Expanded closed-cell polystyrene beads, characterized by a consistent grain size (Ø 2 mm - 5/64 in) and controlled density, non-absorbent, rot-proof, and stable over time. The beads are treated with E.I.A. additive, of organic origin, which ensures excellent workability with hydraulic binder, prevents flotation of the EPS, and guarantees a homogeneous distribution of the beads within the mix, both at low and high densities.
Suitable for producing single-layer screeds for direct bonding of floor coverings, forming slopes on terraces, providing high-performance thermal insulation in attics and pitched roofs, or as an underlayment in next-generation underfloor heating systems (low-profile radiant systems).

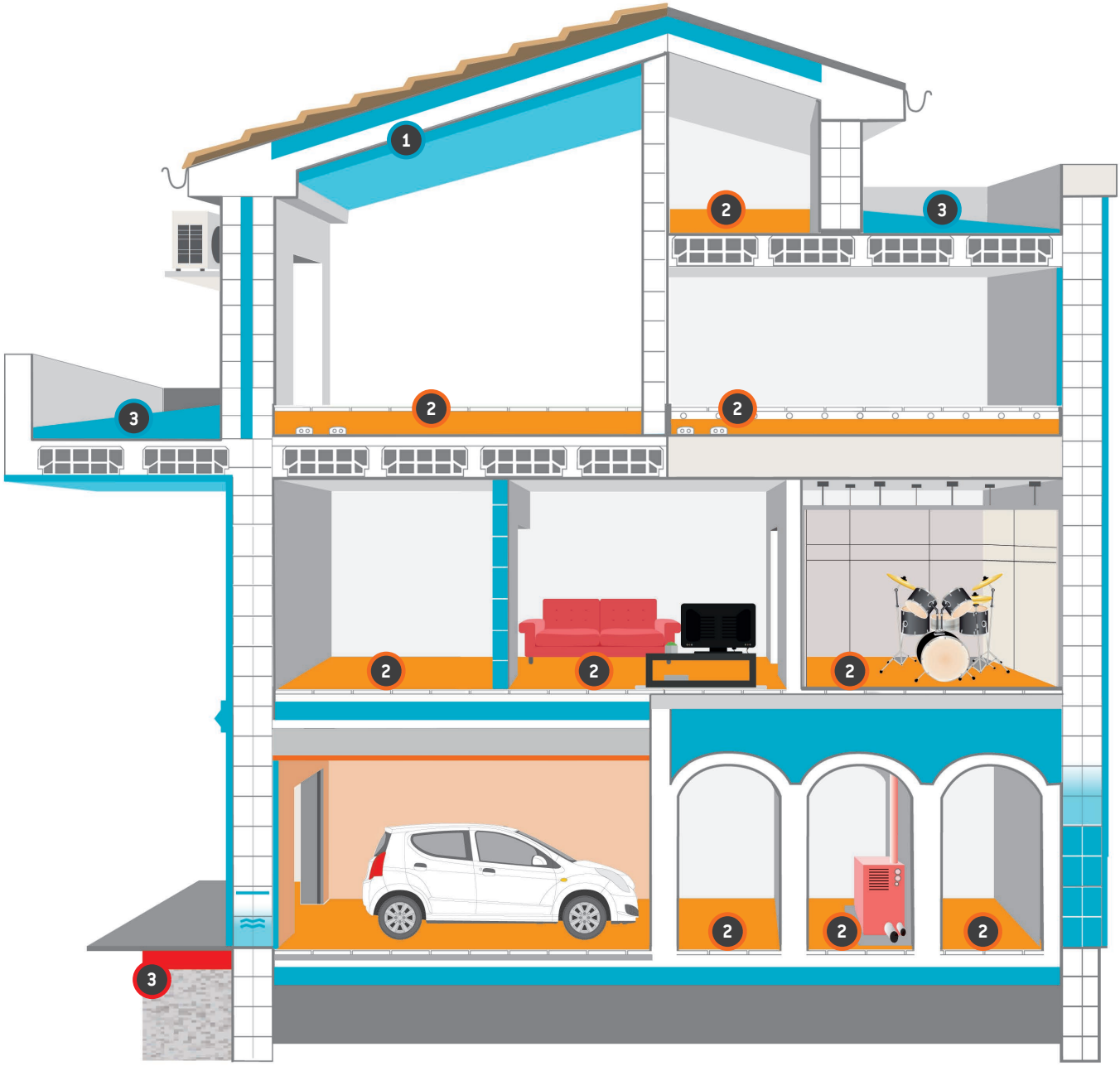
It is the only product that allows the creation of self-levelling lightweight thermal insulating mortars. This product requires very little mixing water, ensuring exceptional drying times (1 day per centimeter of thickness) and avoiding any hygrometric shrinkage, even long-term (no volume reduction of the mix). Its ability to achieve various densities, starting from 110 kg/m$^3$ (6.87 lb/ft$^3$) with a thermal conductivity value $\lambda_D$ of 0.042 W/mK, demonstrates its technological superiority. POLITERM® BLU FEIN, the only RAL-certified aggregate, is the ideal partner for those seeking a reliable and durable solution, confirming its long-standing role in countless projects around the world.




The lightweight mortar made with POLITERM® BLU FEIN is easy to apply, because it can be pumped over long distances and heights. The foamy consistency of the mortar makes the application for levelling and coating very simple and efficient. Tiles and other covering can directly be laid on the lightweight mortar.

*** Also available the "Ready Mix" version, specific for concrete mixing plants.**

# APPLICATION FIELDS




**1**

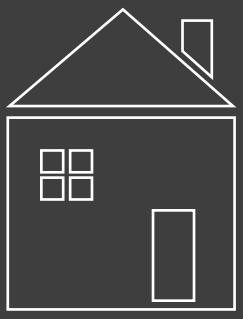
Roof insulation
Lightweight filling

**2**

Lightweight filling
Levelling
Lightweight screed
Insulating underlayment

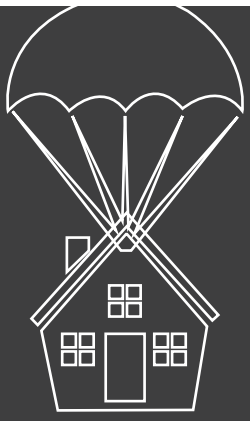
**3**

Forecourts
Slope formation
Roof/terrace
Parking areas
Asphalt underlayer
Lightweight insulating backfill



NEW

RENOVATION



LIGHTENING

# TECHNICAL DETAILS

| POLITERM® BLU FEIN Formula | 200 kg/m³ (12.49 lb/ft³) | 300 kg/m³ (18.73 lb/ft³) | 500 kg/m³ (31.21 lb/ft³) |
|---|---|---|---|
| Weight savings (compared to a traditional concrete) | 90% | 88% | 80% |
| Thermal conductivity $\lambda_{10,dry}$ | 0.066 W/mK | 0.080 W/mK | 0.104 W/mK |
| Fire reaction | $A2_{fl}$-S1 | | |
| Acoustic reduction for impact sound | 15 dB at 6 cm thickness (2.4 in) + 5 cm cement screed (2 in)<br><br>FCBA laboratory test report n° 403/22/0442/A-1-v2 dated 15/04/24 | 15 dB at 5 cm thickness (2 in) (estimated) | 19 dB at 5 cm thickness (2 in) + SCAM SC1<br>FCBA test n° 404/08/140 |
| Minimum thickness | 3 cm (1.18 in) | 3 cm (1.18 in) | 3 cm (1.18 in) |
| Maximum thickness | No maximum | | |
| R value (RSI) for 1" thickness | 2.22 (0.39) | 1.8 (0.317) | 1.38 (0.243) |
| Compression value Mpa (PSI) | 0.69 (100) | 1.61 (234) | 2.24 (385) |
| Application temperature | + 5 °C / + 30 °C (+ 41 °F / + 86 °F) | | |
| Uses | • Levelling screed.<br>• Thermal and acoustic insulation (impact and airborne sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling. | • Levelling screed.<br>• Thermal and acoustic insulation (impact sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling. | • Levelling screed.<br>• Thermal and acoustic insulation (impact sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling.<br>• Composite coating surface. |
| Certification * | CC FAT AVIS TECHNIQUE POLITERM® 200 et 300 n°13/16-1329 publié le 28/07/16 | | - |



* CSTB Certification (Centre Scientifique et Technique du Bâtiment).

| 800/900 kg/m³ (49.94/56.19 lb/ft³) | 1200 kg/m³ (74.21 lb/ft³) | 1500 kg/m³ (93.64 lb/ft³) | Traditional concrete |
|---|---|---|---|
| **65%** | **50%** | **40%** | The average weight of a traditional concrete is: **2400 kg/m³ (149.83 lb/ft³)** |
| 0.176 W/mK | 0.329 W/mk | - | 1.75 W/mK |
| **$A2_{fl}$-S1** | | | |
| 21 dB at 5 cm thickness (2 in) + SCAM SC1 FCBA test n° 404/20/256/B dated 14/12/20 | - | - | |
| 3 cm (1.18 in) | 3 cm (1.18 in) | 3 cm (1.18 in) | |
| No maximum | | | |
| 0.817 (0.1439) | 0.4384 (0.077) | N/A | |
| 5 - 5.77 (725 - 836) | 10.01 (1452) | 15.67 (2273) | |
| + 5 °C / + 30 °C (+ 41 °F / + 86 °F) | | | |
| • Levelling screed.<br>• Thermal and acoustic insulation (impact sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling.<br>• Screeds. | • Levelling screed.<br>• Thermal and acoustic insulation (impact sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling.<br>• Screeds. | • Levelling screed.<br>• Thermal and acoustic insulation (impact sound).<br>• Filling.<br>• Gradient formation.<br>• Floor levelling.<br>• Screeds. | |
| CC FAT DTA DOCUMENT TECHNIQUE D'APPLICATION POLITERM® 900 et 1200 n°13/16-1322 publié le 28/07/2016 | | - | |

# FORMULA

| Formula kg/m³ (lb/ft³) | Cement kg (lb) | POLITERM® BLU FEIN litres (gallons) | Sand kg (lb) | Water litres (gallons) |
|---|---|---|---|---|
| 200 (12.49) | 200 (440.93) | 840 (221.76) | - | 80 (21.13) |
| 300 (18.73) | 270 (595.25) | 840 (221.76) | - | 115 (30.98) |
| 500 (31.21) | 300 (661.39) | 840 (221.76) | 140 (308.65) | 140 (36.98) |
| 800 (49.94) | 300 (661.39) | 680 (179.64) | 400 (881.85) | 160 (42.24) |
| 900 (56.19) | 300 (661.39) | 640 (168.96) | 500 (1102.31) | 160 (42.24) |
| 1000 (62.43) | 300 (661.39) | 600 (158.50) | 600 (1322.77) | 180 (47.52) |
| 1200 (74.21) | 300 (661.39) | 510 (134.73) | 800 (1763.70) | 180 (47.52) |
| 1500 (93.64) | 400 (881.85) | 420 (110.95) | 1000 (2204.62) | 190 (50.16) |

Preparation in concrete batching plants

Preparation in concrete mixer



* Adjustable according to sand moisture level. Other formulations and applications: contact us.

# APPLICATION


# XXLight®

**300 kg/m³ (18.73 lb/ft³)**

... compatible with all coatings!

## READY TO USE LIGHTWEIGHT CONCRETE, THERMO-ACOUSTIC & FIBRE-REINFORCED

**XXLight®** is a state-of-the-art pre-mixed screed with an in-place density of only 300 kg/m³ (18.73 lb/ft³). It combines selected hydraulic binders with fine-grain expanded polystyrene beads (ø 2 mm - 5/64 in), pre-treated with the organic E.I.A. additive, ensuring homogeneous distribution and excellent thermal insulation ($\lambda_D$ of 0.082 W/mK).

Ideal for the creation of lightweight screeds ready to directly receive the final floor covering, XXLight® is also suitable for the application of prefabricated or solvent-free liquid waterproofing membranes. Thanks to its low water demand, it dries quickly (1 day/cm/in of thickness) and shows no volumetric shrinkage over time.


# XX®

**500 kg/m³ (31.21 lb/ft³)**

... simple and easy application!

## READY TO USE LIGHTWEIGHT CONCRETE, INSULATING & FIBRE-REINFORCED

**XX®** sets new standards for pre-mixed screeds by offering high mechanical strength, thanks to its density of 500 kg/m³ (31.21 lb/ft³) and the addition of polypropylene fibers, while maintaining good thermal insulation performance. This advanced mix includes special hydraulic binders, selected aggregates, virgin expanded polystyrene beads (ø 2 mm - 5/64 in), and the organic E.I.A. additive, ensuring a homogeneous blend and good pumpability.

XX® is ideal for applications requiring both durability and energy efficiency. The polypropylene fibers enhance its strength, making it suitable for supporting heavy loads in demanding projects.


# LA CHAPE XXs®

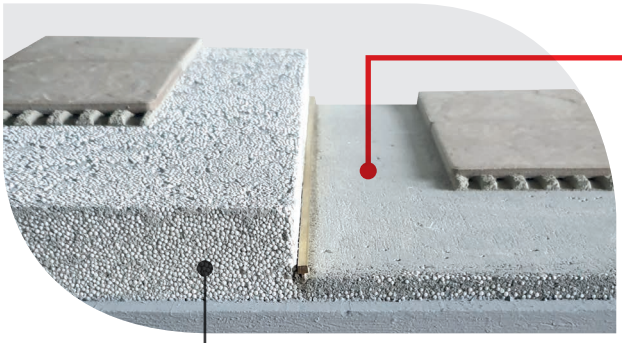
**1200 kg/m³ (74.91 lb/ft³)**

... thickness from 1 cm (3/8 in)!

## READY TO USE LIGHTWEIGHT SCREED WITH FIBRES, FROM 1 CM (3/8 po)

**LA CHAPE XXs®** revolutionizes the screed sector with its ability to be applied at very low thicknesses, starting from 1 cm (74.91 lb/ft³). Ideal for renovations and projects requiring minimal elevation, it combines quality and strength. With fine polystyrene beads (ø 2 mm - 3/8 in) and the exclusive E.I.A. additive, this lightweight screed offers excellent workability, even on uneven surfaces, and ensures perfect leveling. Its advanced formula delivers high mechanical strength, allowing for the direct installation of many types of floor coverings without additional thickness.

LA CHAPE XXS® is the ideal solution for projects requiring a thin, strong, and high-performance screed, reducing static loads and simplifying renovations.



**La Chape XXs®** Thickness 1 cm (3/8 in)
... *the innovation !*

**Screed type XX® or XXLight®**
Thickness 5 cm (2 in)
... *tradition*



# EDILTECO,
# AN INTERNATIONAL SUCCESS

italy . france . benelux . canada

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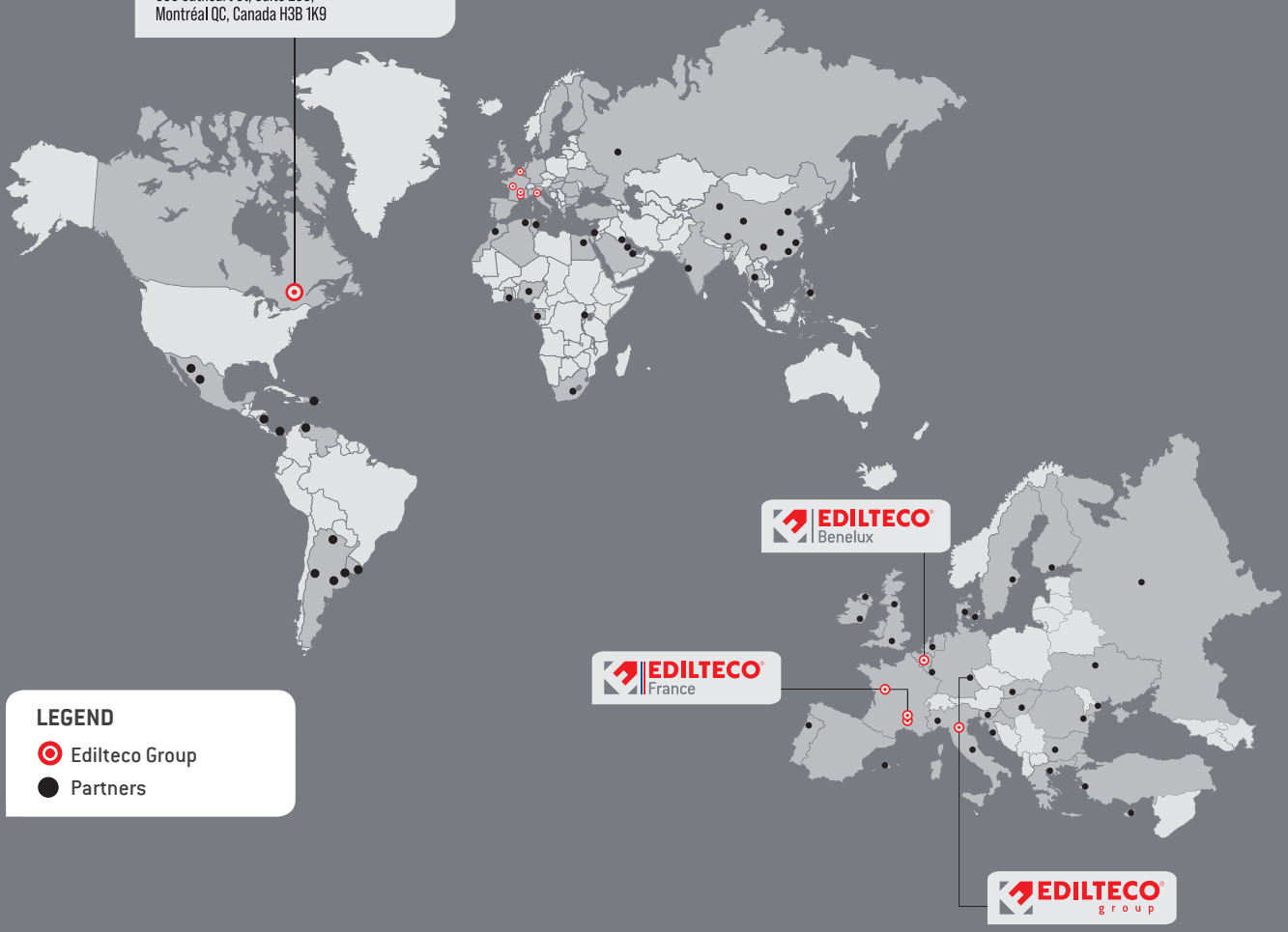


360° Insulation

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Consult our technical and application videos on the Edilteco YouTube Channel: **www.youtube.com/user/EDILTECOvideo**

EDILTECO Canada

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001



350 - GB Rev. 04 - 2025