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## EDILTECO LAUNCHES LA CHAPE XXS® DUAL TECH: LIGHTWEIGHT SCREED WITH ADJUSTABLE CONSISTENCY

Edilteco introduces the new version of LA CHAPE XXS®, the lightweight fibre-reinforced low-thickness screed. Thanks to DUAL TECH technology and an upgraded formulation, on-site teams can now choose between traditional float-finished application and self-levelling fluid application by simply adjusting the water dosage: one product in a bag, two application technologies.

### One screed, two application technologies: introducing LA CHAPE XXS® DUAL TECH

Edilteco expands its floor-system portfolio with LA CHAPE XXS® DUAL TECH, an evolution of the lightweight fibre-reinforced low-thickness screed already known on the market. The novelty is not just in the name: an upgraded formulation now allows the consistency of the mix to be managed directly on site, with a choice between traditional float-finished application and self-levelling fluid application, **starting from the same product in a bag.**

A solution designed for designers and contractors looking for operational flexibility without multiplying products in stock, while preserving the well-established performance of Edilteco's lightweight fibre-reinforced screed.

### What changes compared with LA CHAPE XXS®

LA CHAPE XXS® DUAL TECH inherits the technical identity of the original product – pre-mixed lightweight fibre-reinforced screed, low-thickness application (from 1 cm) – and enhances it with a new feature: **the ability to choose the application mode at mixing stage.**

The new formulation allows the product to be used in two ways:

- **traditional mode**, float-finished, with reduced water dosage;
- **fluid mode**, self-levelling, with increased water dosage according to data-sheet specifications.

In both cases cohesion, workability and finish quality remain at high levels.

## DUAL TECH technology: how it works

In design and on-site practice, choosing a screed has always required a preliminary decision between traditional and fluid solutions. Traditional screeds offer control and precision in application but require longer times and more manual skill; fluid screeds favour speed and flatness but can be less adaptable in some operating conditions – for example with steep falls or complex geometries.

With **DUAL TECH** technology this binary logic is overcome. The same product can be used in either mode, simply by following the recommended water dosage. Consistency thus becomes a variable that can be managed directly on site, depending on the substrate, the intervention and the way the laying team is organised.

## Composition and performance of the lightweight fibre-reinforced screed

LA CHAPE XXs® DUAL TECH belongs to Edilteco's new generation of lightweight screeds, with a composition based on **cementitious binder, lightweight aggregates and fibres**, integrated with **fine-graded expanded polystyrene (EPS) beads (Ø ? 3 mm) pre-coated with the proprietary E.I.A. additive**. Bead-by-bead pre-coating at the production source eliminates flotation and ensures homogeneous distribution within the mix, with a direct positive impact on the uniformity of in-place performance.

Key technical features:

- **bulk density** around 1,200 kg/m<sup>3</sup>, with weight reduction of up to 50% compared to a traditional screed of equal volume;
- **compressive strength ? 12 N/mm<sup>2</sup> (12,000 kPa)** in traditional mode, **? 10 N/mm<sup>2</sup> (10,000 kPa)** in fluid mode;
- good **flexural strength**;
- **fire-reaction class A2-s1,d0**, suitable also for contexts with specific fire-safety requirements;
- **installation thickness from 1 cm**, particularly useful in renovation works with limited build-up height available.

The lightweight character makes the product particularly suited to interventions on existing slabs, load-sensitive structures and historic buildings, where containing static loads is a design priority.

## Workability, finish and on-site times

The new formulation delivers a material that, depending on the chosen consistency, can be float-finished or left to self-level, in both cases retaining good cohesion and ease of handling.

This flexibility translates directly into a homogeneous, regular finish and into shorter execution times: rapid setting and drying allow, under standard conditions, **direct laying of ceramic floor coverings as early as 24 hours after installation, with no need for a smoothing layer** – significantly reducing overall site times.

## Application areas

LA CHAPE XXs® DUAL TECH is designed for floor-system applications in both new construction and renovation, and in particular for:

- level adjustment and flatness correction;

- creation of slopes;
- low-thickness thermo-insulating underlayments;
- bonded or de-bonded screeds;
- interventions on timber, hollow-core or existing slabs where containment of static loads is required.

## A single solution that simplifies on-site organisation

Perhaps the most significant aspect of DUAL TECH technology is not just the material's performance, but its impact on site organisation. Having a **single product capable of adapting to different application modes** allows users to:

- simplify materials management and reduce stock at the warehouse;
- standardise the training of laying teams;
- reduce operational complexity in the event of mid-project design variations;
- increase control over the final result, ensuring consistency across the different zones of the project.

In a context where construction sites demand growing efficiency and adaptability, the ability to vary the screed consistency without changing product is a tangible optimisation lever.

## Technical FAQ

**What changes between LA CHAPE XXs® and the new DUAL TECH version?** The base composition remains similar, but the new formulation makes it possible to use the same product either in traditional float-finished mode or in self-levelling fluid mode, simply by adjusting the water dosage according to the data sheet.

**How is the application mode selected on site?** The choice is made at mixing stage by following the prescribed water dosage: lower dosage for traditional consistency, higher dosage for self-levelling fluid consistency.

**Do mechanical performances differ between the two modes?** Yes, in line with the different consistencies: traditional mode reaches compressive strength ? 12 N/mm<sup>2</sup>, fluid mode ? 10 N/mm<sup>2</sup>. Both values are appropriate for floor-system use according to EN 13813.

**What is the minimum installation thickness?** 1 cm, as for the previous version. This makes the product particularly suitable for renovations where the available build-up height is limited.

**Which substrates can it be applied to?** Hollow-core slabs, concrete slabs, properly prepared timber slabs and irregular substrates, both in bonded and de-bonded modes. For specific cases please consult Edilteco's technical department.

**How long until floor coverings can be installed?** Under standard conditions, ceramic floor coverings can be laid directly as early as 24 hours after installation, with no need for a smoothing layer. Times for other coverings (parquet, resilient) follow the indications in the technical data sheet.

**What is the fire-reaction class of LA CHAPE XXs® DUAL TECH?** Class A2-s1,d0, suitable for use also in contexts with specific fire-safety requirements.

**Is it compatible with underfloor heating systems?** Yes, it can be used as a covering layer in low-thickness radiant systems, in both traditional and fluid modes.