

PRE-BAGGED RENDER / SCREED WATERPROOFING SYSTEM





Introducing LBS Pre-Bagged Waterproof Render System: Protect Your Building with the Best

LBS is committed to creating sustainable and innovative solutions for the construction industry. Our waterproof render system is the result of years of rigorous research and development, utilising the latest advancements in materials science and engineering. We have created a solution that not only prevents water penetration but also allows for breathability, preventing moisture buildup and promoting long-term durability.

This system has been specifically designed to combat the harsh effects of climate change, ensuring that your building is safeguarded against extreme weather conditions. With LBS waterproof render system, you can be confident that your building will be protected for many years to come.

Our commitment to sustainability extends beyond the products we create. Our manufacturing processes are designed to minimise waste and reduce environmental impact. By choosing LBS, you are making a choice for a more sustainable future.

MAINTENANCE FREE SYSTEM

After the application of the product, there is no need for any drainage equipment or materials like water pumps.

Benefits

- ▶ Able to resist high water pressures
- ▶ Adheres securely to the underlying surface
- ▶ Durable and able to withstand wear and tear
- ▶ Conforms to the shape of the structure
- ▶ Meets Grades 1-3 standards set out in BS 8102-2009
- ▶ Suitable for use in areas with high water tables as per BS 8102-2009
- ▶ *LBS provides a guarantee for the product when installed by an authorised contractor.

Applications & Uses

The LBS Waterproofing System provides complete protection to both above and below-ground structures against water penetration, thereby eliminating the need for any maintenance of internal drainage or pumping systems that may be necessary with other solutions.

The system can be applied to almost any structure and creates a reliable and watertight seal, making it suitable for structures that require keeping water out or those that require keeping water in.

Water In

- ▶ Basements
- ▶ Car parks
- ▶ Tunnels
- ▶ Cellars
- ▶ Underground stations
- ▶ Subways
- ▶ Pavement vaults

Water Out

- ▶ Reservoirs
- ▶ Waste water treatment plants
- ▶ Containment bunds
- ▶ Swimming pools
- ▶ Sewers and pipes
- ▶ Ponds







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LEVEL

PARKING A D9

3
PARKING A

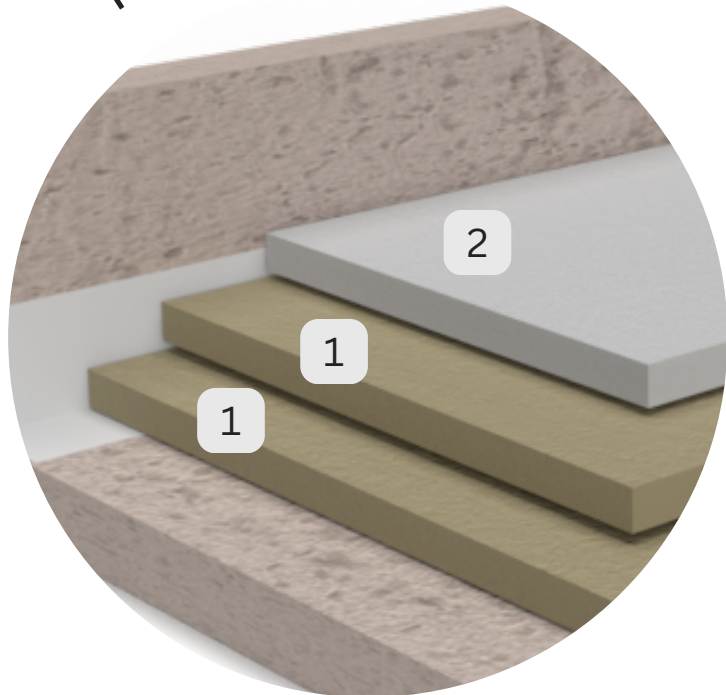
Approved Applicator Guarantee

Systems guarantee available when applied by our approved applicators.

1 LBS Spritz & Bonding Mortar



Floor surfaces



2 LBS Screed WT



Introducing LBS Pre-Bagged Waterproof

Render System:

Protect Your Building with the Best

The LBS Pre-bagged Waterproofing System includes a render system designed for application on walls and overhead surfaces, as well as a screed system suitable for use on floors.

The pre-bagged dried mortars in the system consist of custom-graded aggregates and cements with waterproofing admixtures. They are available in four grades, each with the appropriate mix ratio to ensure optimal application, performance, and durability. Once water is added, these mortars serve as the multicoat components for the structural waterproofing systems.

Walls & overhead surfaces



1 LBS Spritz & Bonding Mortar



2 LBS Render Mortar



3 LBS Finishing Mortar





Complimentary Waterproofing Products



LBS Screed WT

Pre-mixed, ready-to-use mortar with medium-fast drying and controlled shrinkage, based on high-strength hydraulic binders, selected sands and specific additives. Suitable for creating internal and external screeds on which to glue floors.

It can be laid with ceramic, natural stone and marble floors, even after only 24 hours from installation, after 72 hours from installation, for wood, rubber, PVC floors, the waiting time will be about one week (in any case, it is always advisable to check the residual humidity with a carbide hygrometer).



LBS Injecto Gel

Injectable chemical barrier based on silane monomer for the treatment of capillary ascent also intense.

It is particularly suitable to:
Make water-repellent impregnations on masonry of historic buildings.

Recommended applications:
Turn into water repellent all the most common absorbent materials used in construction.



LBS Elasto 1000

Single-component, polymer-modified cement waterproofing product made with high resistance hydraulic binders, selected aggregates and special additives. Specifically designed for waterproofing and protecting concrete

- Specifically designed for waterproofing.
- Specifically designed to protect concrete.
- Resistant to UV rays.
- Easy workability.
- High adhesion strength.

Epoxy Bond

A two component epoxy structural adhesive, for bonding, grouting and structural repairs. It is in form of thixotropic soft paste, tollerates damp substrates and it is suitable for applications between +5 °C and +40 °C.

Recommended Applications:

The substrate previously prepared must be dry or only slightly wet. Apply Epoxy 230 A+B creating a continuous thickness. If the bonding cannot be done immediately it is advisable to spray onto the fresh product roughly 1 kg/m² of quartz sand in order to make it suitable for a subsequent reprise. Do not apply Epoxy 230 A+B on substrates with excess of water or onto freezing surfaces



FlexTape 150

Waterproofing tape based on special thermoplastic elastomers, can be fused with standard hot air sealers.

- High-performance waterproofing of construction joints.



LBS100 WT

Normal-setting water-repellent additive for cementitious materials.

It is particularly suitable to:

- Preparing waterproof plasters.
- Recommended applications:
- Improving the water resistance of all kinds of cementitious materials to be applied to stone, clay bricks or concrete.



LBS SCREED WT

CHOOSING LBS SCREED WT

- Ideal for **the waterproofing refurbishment of floors** thanks to the WT additives
- The surface hydrophobic film **improves curing and mechanical strengths**
- The controlled hydraulic shrinkage **protects from passing-through cracks**
- The open and rough final structure **impedes capillary absorption**
- The additivation **mitigates the effects** of evaporation too fast or slow
- **High and stable adhesion** is assured even in reverse water pressure



MAIN USES

- Preparation of an unabsorbing, even thick layer before the pose of flooring coverings (class C25 F5 according to EN 13813)
- Making of “humid earth consistency” screeds, for renewal and restoration of flooring substrates subject to heavy rising damp, against-earth, ecc

SUITABLE SUBSTRATES	PREPARATION
<ul style="list-style-type: none"> - Flooring subject to erosion by water - Waterproofing grip mortars/rough coats - Old flooring substrates - Concrete - Aerated concrete - Cotto, bricks, stone - Every kind of mortar - Cementitious materials in general, as long as they have a water absorption not excessive and not completely absent 	<p>In the presence of materials either detaching (layers not well cohesive of old walls, powder, rubble) or lubricant (fats, waxes, detergents...) on the surface to be treated, dispose of an accurate cleaning or a slight abrasion. Fix along the perimeter to be treated (walls, pillars, etc) some dishardening material (such as polymeric bands, cork or EPS) >5mm thick. Pour ¾ of the total mixing water into a clean container, add the powder and mix for 3 minutes with a low-speed mixing machine, adding gradually the remaining water until obtaining a homogenous paste. It can also be applied with a machine (such as “Turbosol” pumps, etc).</p>

PRODUCT INFORMATION

<p>Appearance: grey powder</p> <p>Max grain size: 3.0 mm</p> <p>Workable time: 40 min from mixing</p> <p>Thickness for layer: 20-50mm</p> <p>N of layers: 1+</p> <p>Yield: 1.95 kg/m² per mm</p> <p>Fresh mortar density: 2060±30g/dm³</p>	<p>Water: 2.1 - 2.4 litres/bag (7%-8%)</p> <p>Mixing time: 3 min</p> <p>Packaging: 28kg bags</p> <p>Application and curing temperature: between +5° and +35° C</p> <p>Storage in a dry place: 12 months from production</p>
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LBS SCREED WT

APPLICATION

Anchored screeds (20-40mm): Prepare a grip layer of rough coat **LBS Spritz & Bonding Mortar**

Floating screeds (sopra 30 mm): Lay down a dishartening polimeric sheet (PVC, PTE, ecc), sovrapposed along junctions for at least 20 cm. Apply the mixed material directly on the fresh rough coat or on the sheet, compacting and working it even with a trowel. In areas crossed by channels, cables, etc, the screed must be reinforced with hexagonal meshes armor. It is always mandatory to make sure to have at least 20 mm of screed, including raised objects.

For discontinue works in which the casting recovery is necessary, the area of the screed with the surface to be reprised must be prepared by inserting (for half lenght) in the fresh mortar some metallic bars (30 cm long and 4-8 mm thick) every 20-30cm.

Hardening time: 1.5-2h

Covering time: 4 days for tiles, cotto, moquette, 7 days (after a check of the surface humidity being 2% or less) for wood, parquet, polimers (resins/PVC).

	CHARACTERISTICS	PERFORMANCE	STANDARD REQUIREMENT
EN 14891	Compressive strength	>25 MPa (C25)	Classes C1-C30+
	Flexural strength	>5 MPa (F5)	Classes F1-F10+
	Abrasion resistance (Bohme)	A4	Classes A1-A50
Stand alone tests	Impaired expansion/shrinkage	≤0.3%	ND
	Adhesive strength (on standard concrete)	>1.5 MPa	ND
	Capillary absorption	< 0.2 kg/m ² / h ^{1/2}	ND
	Water vapour permeability	Sd=10m±5	ND
	Capillary absorption and water absorption	≤0.2kg/m ² h ^{1/2}	ND

SYSTEM COMPLIANCE

LBS WT PRODUCTS are suitable to build systems coverings **BS 8102:2022** applications following waterproofing **principle "A"**:

-External waterproofing system (**Grades 1-3 + additional requirements**)

-Internally applied waterproofing system (**Grades 1-3**)

If an underfloor water draining system is included in the project, **principle "C"** can also be met.

GENERAL PRECAUTIONS

Do not make partial mixes, neither use additives/solvents except for clean water at ambient temperature. Do not use bags broken, already opened or containing material either hardened or with lumps. Do not add further water to the mortar already mixed. The fresh product must be protected against bad weather and from too fast drying (screening from direct wind and sun) for at least 48-72 hours from the pose. The data and timings here reported are referred to controlled conditions of 21 C and RU 65%. Higher temperatures can fasten them, and lower temperatures can slow them down until halting for good under 5 C. Wash the tools with water when the material is still fresh.

LBS FINISHING MORTAR

CHOOSING LBS FINISHING MORTAR

- WT-additives make it a **completely water-repellent** material
- The minimal hydraulic shrinkage **protects from passing-through cracks**
- **High and stable adhesion** is assured even in reverse water pressure
- Suitable for **structural operations** thanks to the excellent resistance
- Easy to work and flowing, **reduce fatigue** and **application times**
- The thixotropic consistency and adhesion make it perfect for **above-head works** - The granulometric curve adopted allows for **furniture suitable for every need**



MAIN USES

- Waterproof reinforcement of concrete, walls and mortars eroded by humidity (both against-ground and with rising damp)
- Hydrophobized finishing of waterproofing structural rendering mortars, before the application of decoratives and coatings.
- Refurbishment of concrete, structural or non-structural (class R4 according to EN 1504-3), and protection from water penetration (EN 1504-2)

SUITABLE SURFACES	PREPARATION
<ul style="list-style-type: none"> - Walls and floorings subject to erosion from water - Rigid waterproofing mortars, especially plasters - Concrete - Aerated concrete - Cotto, bricks, stone - Every kind of mortar - Cementitious materials in general, as long as they have a water absorption not excessive and not completely absent 	<p>In the presence of materials either detaching (layers not well cohesive of old walls, powder, rubble) or lubricant (fats, waxes, detergents...) on the surface to be treated, dispose of an accurate cleaning or a slight abrasion. Pour $\frac{3}{4}$ of the total mixing water into a clean container, add the powder and mix for 3 minutes with a low-speed mixing machine, adding gradually the remaining water until obtaining a homogenous paste. It can also be applied with a machine (such as "Turbosol" pumps, etc).</p>

PRODUCT INFORMATION	
<p>Appearance: grey powder</p> <p>Max grain size: 1.2mm</p> <p>Workable time: 30 min from mixing</p> <p>Thickness for layer: 3-15mm</p> <p>N of layers: 2+</p> <p>Yield: 1.75 kg/m² per mm</p> <p>Fresh mortar density: 2000±30g/dm³</p>	<p>Water: 3.75 - 4.25 liters/bag (15%-17%)</p> <p>Mixing time: 3 min</p> <p>Packaging: 25kg bags</p> <p>Application and curing temperature: between +5° and +35° C</p> <p>Storage in a dry place: 12 months from production</p>

LBS FINISHING MORTAR

APPLICATION

Briefly, before application, the support must be dampened until reaches SDA (Saturated Dry Condition). Do not apply on surfaces with water puddles or coming water.

Lay with a trowel a first hand of mortar, well-compacted, on which is possible to load more fresh product until a maximum of 15 mm. Over the first hand, just after first hardening (roughly 4-6h) a second hand must be layered, with a thickness similar to the first one. In order to achieve an efficient waterproofing effect, is good standard to lay several thin layers instead of one or two more thick.

Level the mortar with trowel and straight and work it plan if necessary.

After 1.5 - 2 hours is possible to use a plastering trowel to make it completely smooth or rough.

It can be covered or painted after 24 hours.

	CHARACTERISTICS	PERFORMANCE	STANDARD REQUIREMENT
EN 1504-2 & 3	Compressive strength	>45 MPa	>45 MPa
	Capillary absorption	<0.15 kg m ² h ^{1/2}	<0.5 kg m ² h ^{1/2}
	Chlorine ion content	<0.003%	<0.05%
	Adhesive strength	>2MPa	>2MPa
	Impeded expansion/shrinkage	≤0.05%	≤0.3%
	Resistance to carbonation	dk≤45	dk≤45
	Freeze-thaw cycles with immersion in defrosting	>2MPa	>2MPa
	salts Storm cycles (thermal shock)	>2MPa	>2MPa
	Dry cycles	>2MPa	>2MPa

SYSTEM COMPLIANCE

LBS WT PRODUCTS are suitable to build systems coverings BS 8102:2022 applications following waterproofing

principle "A": -External waterproofing system (**Grades 1-3 + additional requirements**)

-Internally applied waterproofing system (**Grades 1-3**)

If an underfloor water draining system is included in the project, **principle "C"** can also be met.

GENERAL PRECAUTIONS

Do not make partial mixes, neither use additives/solvents except for clean water at ambient temperature. Do not use bags broken, already opened or containing material either hardened or with lumps. Do not add further water to the mortar already mixed. The fresh product must be protected against bad weather and from too fast drying (screening from direct wind and sun) for at least 48-72 hours from the pose. The data and timings here reported are referred to controlled conditions of 21 C and RH 65%. Higher temperatures can fasten them, and lower temperatures can slow them down until halting for good under 5 C. Wash the tools with water when the material is still fresh.

LBS SPRITZ & BONDING MORTAR

CHOOSING LBS SPRITZ & BONDING MORTAR

- Ideal as **waterproofing rough coarse**, thanks to WT additives
- The surface hydrophobic film **improves curing and mechanical strengths**
- The controlled hydraulic shrinkage **protects from passing-through cracks**
- The additivation **impedes the effect of damp rise**.
- **High and stable adhesion** is assured even in reverse water pressure
- **Adjustable consistency** just changing water, according to pose necessities



MAIN USES

- Pose of a gripping impermeable layer with high adhesion, before the laying of coverings for wall, floor, ceiling
- Mortar for localized repairs of concrete (class R3 according to 1504-3), with excellent waterproofing and protection abilities (1504-2)
- Can also be used as a semi-fluid bedding mortar

SUITABLE SURFACES	PREPARATION
<ul style="list-style-type: none"> -Flooring subject to erosion by water -Waterproofing grip mortars/rough coats -Old flooring substrates -Concrete -Aerated concrete -Cotto, bricks, stone -Every kind of mortar -Cementitious materials in general, as long as they have a water absorption not excessive and not completely absent. 	<p>In the presence of materials either detaching (layers not well cohesive of old walls, powder, rubble) or lubricant (fats, waxes, detergents...) on the surface to be treated, dispose of an accurate cleaning or a slight abrasion. Pour ¾ of the total mixing water into a clean container, add the powder and mix for 3 minutes with a low-speed mixing machine, adding gradually the remaining water until obtaining a homogenous paste. It can also be applied with a machine (such as "Turbosol" pumps, etc).</p>

PRODUCT INFORMATION	
<p>Appearance: grey powder</p> <p>Max grain size: 3.0 mm</p> <p>Workable time: 40 min from mixing</p> <p>Thickness for layer: 10-30mm</p> <p>N of layers: 1</p> <p>Yield: 1.75 kg/m² per mm</p> <p>Fresh mortar density: 2100±30g/dm³</p>	<p>Water: 4.25-4.75 litres/bag (21%-22%)</p> <p>Mixing time: 3 min</p> <p>Packaging: 25kg bags</p> <p>Application and curing temperature: between +5° and +35° C</p> <p>Storage in a dry place: 12 months from production</p>

LBS SPRITZ & BONDING MORTAR

APPLICATION

Briefly, before application, the support must be dampened until reaches SDA (Saturated Dry Condition). Do not apply on surfaces with water puddles or coming water.

When used as a gripping mortar, a single layer can be put by hand or by machine in a coarse manner, without working it too smooth or plain, just making sure to cover the entire application surface without excessive gradients. When applied on walls, a single hand is sufficient, while when used to realise the first waterproofing before the pose of K Screed WT is necessary to lay at least two hands (after 4-6h roughly).

The mortar can also be kept with plastic/thixotropic consistency and used as a repair or bedding mortar, using 2-3% less of water (17-19%). In that case, can be worked smooth, with a trowel or by pressing it, after 1.5 - 3 hours from mixing.

	CHARACTERISTICS	PERFORMANCE	STANDARD REQUIREMENT
EN 1504-2 & 3	Compressive strength	>30 MPa	>25 MPa
	Capillary absorption	<0.15 kg m ² h ^{1/2}	<0.5 kg m ² h ^{1/2}
	Chlorine ion content	<0.003%	<0.05%
	Adhesive strength	>1.5MPa	>1.5MPa
	Impeded expansion/shrinkage	≤0.05%	≤0.3%
	Resistance to carbonation	dk≤45	dk≤45
	Freeze-thaw cycles with immersion in defrosting salts	>1.5MPa	>1.5MPa
	Storm cycles (thermal shock)	>1.5MPa	>1.5MPa
	Dry cycles	>1.5MPa	>1.5MPa

SYSTEM COMPLIANCE

LBS WT PRODUCTS are suitable to build systems coverings **BS 8102:2022** applications following waterproofing **principle "A"**:

- External waterproofing system (**Grades 1-3 + additional requirements**)
- Internally applied waterproofing system (**Grades 1-3**)

If an underfloor water draining system is included in the project, **principle "C"** can also be met.

GENERAL PRECAUTIONS

Do not make partial mixes, neither use additives/solvents except for clean water at ambient temperature. Do not use bags broken, already opened or containing material either hardened or with lumps. Do not add further water to the mortar already mixed. The fresh product must be protected against bad weather and from too fast drying (screening from direct wind and sun) for at least 48-72 hours from the pose. The data and timings here reported are referred to controlled conditions of 21 C and RH 65%. Higher temperatures can fasten them, and lower temperatures can slow them down until halting for good under 5 C. Wash the tools with water when the material is still fresh.

LBS RENDER MORTAR

CHOOSING LBS RENDER MORTAR

- Ideal for **structural waterproofing** thanks to the WT-additives
- The minimal hydraulic shrinkage **protects from passing-through cracks**
- **High and stable adhesion** is assured even in reverse water pressure
- Suitable for **structural operations** thanks to the excellent resistances
- Easy to work and flowing, **reduces fatigue** and **application times**
- The thixotropic consistency and adhesive strength makes it perfect for **above-head works** - The granulometric curve adopted allows for **finiture suitable for every need**



MAIN USES

- Structural waterproofing rendering for walls, concrete and mortars eroded by humidity (both against-ground and with rising damp)
- Structural reinforcement with plain finishing of vertical and horizontal surfaces
- Refurbishment of concrete, structural or non-structural (class R4 according to EN 1504-3), and protection from water penetration (EN 1504-2)

SUITABLE SURFACES

- Walls and floorings subject to erosion from water
- Rigid waterproofing mortars, especially plasters
- Concrete
- Aerated concrete
- Cotto, bricks, stone
- Every kind of mortar
- Cementitious materials in general, as long as they have a water absorption not excessive and not completely absent

PREPARATION

In the presence of materials either detaching (layers not well cohesive of old walls, powder, rubble) or lubricant (fats, waxes, detergents...) on the surface to be treated, dispose an accurate cleaning or a slight abhration. Pour $\frac{3}{4}$ of the total mixing water in a clean container, add the powder and mix for 3 minutes with a low-speed mixing machine, adding gradually the remaining water until obtaining a homogenous paste. It can also be applied with machines (such as "Turbosol" pumps, etc).

PRODUCT INFORMATION

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Max grain size: 1.2 mm
Workable time: 30 min from mixing
Thickness for layer: 5-25 mm
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Yield: 2 1.95 kg/m per mm
Fresh mortar density: 2010±30g/dm³

Water: 3.5 - 4.00 litres/bag (14%-16%)
Mixing time: 3 min
Packaging: 25kg bags
Application and curing temperature: between +5° and +35° C
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LBS RENDER MORTAR

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	Adhesive strength	>2MPa	>2MPa
	Impeded expansion/shrinkage	≤0.1%	≤0.3%
	Resistance to carbonation	dk≤45	dk≤45
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	salts Storm cycles (thermal shock)	>2MPa	>2MPa
	Dry cycles	>2MPa	>2MPa

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-Internally applied waterproofing system (**Grades 1-3**)

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GENERAL PRECAUTIONS

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Our Systems



External Wall
Insulation



Render



Brick Slip



Concrete
Repair



Tile
Fixing



System
Finishes

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