











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005754
ITEM	LMNKB BLUE MOON BLACK
FORMAT	120 X 60
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	<div>5</div> High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm. Do not bond more than 20%.





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE ⁽¹⁾
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE ⁽²⁾
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE ⁽³⁾
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE ⁽⁴⁾
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	2376 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm ²	42 N/mm ²
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm ³
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	$9 \cdot 10^{-6} \text{ K}^{-1}$	$6,2 \cdot 10^{-6} \text{ K}^{-1}$
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

NPD: No performance determined






CHEMICAL PROPERTIES

			TEST-NORM	NORM ISO 13006	LIMONE-KB
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	A ⁽⁵⁾
	RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5 ⁽⁶⁾

(5) Classes UA, ULA and UHA mean that no visual effect is observed if a test solution is applied.

(6) Class 5 means that the stains produced with test solutions can be cleaned with a wet cloth.

DIMENSION TEST-NORM ISO 10545-2

		NORM ISO 13006		LIMONE-KB	
	LENGTH	±0,3%	±1,00mm	±0,04%	1200,0±0,50mm
	WIDTH	±0,3%	±1,00mm	±0,08%	600,0±0,50mm
	THICKNESS	±5,00%	±0,50mm	±5,00%	10,0 ±0,50mm
	STRAIGHTNESS OF SIDES	±0,3%	±0,80mm	±0,04%	≤0,50 mm
	SQUARENESS	±0,3%	±1,50mm	±0,07%	≤0,80 mm
	LATERAL SURFACE FLATNESS / WARPAGE	±0,4%	± 1,80mm	+0,08% / -0,04%	+0,90mm / -0,50mm

RECOMMENDED JOINTS BY TYPE OF SURFACE

	INDOOR FLOORS		INDOOR WALLS		OUTDOOR FLOORS		FAÇADES		SUGGESTED SALES PRODUCT
	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	UNE EN 13888
TILE JOINT	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	≥3mm	In the whole surface	≥2,5 mm	In the whole surface	WALL OR FLOOR TILES: Fugabella ECO Porcelana 0-5 (CG2*WA) (0 - 5 mm) FAÇADES: Fugabella ECO 2-12 (CG2*WA) (2 - 12 mm)
PERIMETER JOINT	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface and inner corners and, in general, at special points where movement in the ceramic tiles is needed	Fugabella ECO PU (8 - 35 mm)
EXPANSION/PARTITION JOINT	≥5 mm	40 - 80 m²	≥5 mm	40 - 80 m²	≥5 mm	20 - 40 m² or very 8 to 10 linear metres	8 - 10 mm		Fugabella ECO PU (8 - 35 mm)
STRUCTURAL JOINT	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	Fugabella ECO PU 40 (6 - 35 mm)

Tile joint: Joints between adjoining tiles designed to offset expansion and contraction and to conceal slight dimensional differences in the pressed tiles.

Perimeter joint: Joints that must be left round the edges of wall and floor surfaces and round vertical elements like columns, partition walls etc.

Expansion/partition joint: Joints that run between tiles, dividing up a tiled surface or its length, depending on the location of the tiled surface, indoors or out. They are designed to offset expansion and contraction and to conceal slight nominal differences in the pressed tiles.

Structural joint: Joints in the substrate to absorb possible structural movements, regardless of the type of covering bonded to it. For this reason, structural joints coinciding with the ones in the substrate must also be left between the tiles.

TYPES OF GROUTING MATERIALS

CG1: Normal cementitious grouts

CG2: Improved cementitious grouts

RG: Synthetic resins (generally epoxy)

L: Portland cement grout, only recommended for undemanding situations, such as indoor areas with no additional stresses. Not recommended for areas subject to thorough cleaning or strict hygiene conditions or bathrooms, given its high porosity.











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005755
ITEM	LMNKB BLUE MOON GREY
FORMAT	120 X 60
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	<div>5</div> High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm. Do not bond more than 20%.





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE ⁽¹⁾
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE ⁽²⁾
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE ⁽³⁾
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE ⁽⁴⁾
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	2376 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm ²	42 N/mm ²
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm ³
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	$9 \cdot 10^{-6} \text{ K}^{-1}$	$6,2 \cdot 10^{-6} \text{ K}^{-1}$
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

NPD: No performance determined






CHEMICAL PROPERTIES

			TEST-NORM	NORM ISO 13006	LIMONE-KB
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	A ⁽⁵⁾
	RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5 ⁽⁶⁾

(5) Classes UA, ULA and UHA mean that no visual effect is observed if a test solution is applied.

(6) Class 5 means that the stains produced with test solutions can be cleaned with a wet cloth.

DIMENSION TEST-NORM ISO 10545-2

		NORM ISO 13006		LIMONE-KB	
	LENGTH	±0,3%	±1,00mm	±0,04%	1200,0±0,50mm
	WIDTH	±0,3%	±1,00mm	±0,08%	600,0±0,50mm
	THICKNESS	±5,00%	±0,50mm	±5,00%	10,0 ±0,50mm
	STRAIGHTNESS OF SIDES	±0,3%	±0,80mm	±0,04%	≤0,50 mm
	SQUARENESS	±0,3%	±1,50mm	±0,07%	≤0,80 mm
	LATERAL SURFACE FLATNESS / WARPAGE	±0,4%	± 1,80mm	+0,08% / -0,04%	+0,90mm / -0,50mm

RECOMMENDED JOINTS BY TYPE OF SURFACE

	INDOOR FLOORS		INDOOR WALLS		OUTDOOR FLOORS		FAÇADES		SUGGESTED SALES PRODUCT
	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	UNE EN 13888
TILE JOINT	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	≥3mm	In the whole surface	≥2,5 mm	In the whole surface	WALL OR FLOOR TILES: Fugabella ECO Porcelana 0-5 (CG2*WA) (0 - 5 mm) FAÇADES: Fugabella ECO 2-12 (CG2*WA) (2 - 12 mm)
PERIMETER JOINT	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface and inner corners and, in general, at special points where movement in the ceramic tiles is needed	Fugabella ECO PU (8 - 35 mm)
EXPANSION/PARTITION JOINT	≥5 mm	40 - 80 m²	≥5 mm	40 - 80 m²	≥5 mm	20 - 40 m² or very 8 to 10 linear metres	8 - 10 mm		Fugabella ECO PU (8 - 35 mm)
STRUCTURAL JOINT	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	Fugabella ECO PU 40 (6 - 35 mm)

Tile joint: Joints between adjoining tiles designed to offset expansion and contraction and to conceal slight dimensional differences in the pressed tiles.

Perimeter joint: Joints that must be left round the edges of wall and floor surfaces and round vertical elements like columns, partition walls etc.

Expansion/partition joint: Joints that run between tiles, dividing up a tiled surface or its length, depending on the location of the tiled surface, indoors or out. They are designed to offset expansion and contraction and to conceal slight nominal differences in the pressed tiles.

Structural joint: Joints in the substrate to absorb possible structural movements, regardless of the type of covering bonded to it. For this reason, structural joints coinciding with the ones in the substrate must also be left between the tiles.

TYPES OF GROUTING MATERIALS

CG1: Normal cementitious grouts

CG2: Improved cementitious grouts

RG: Synthetic resins (generally epoxy)

L: Portland cement grout, only recommended for undemanding situations, such as indoor areas with no additional stresses. Not recommended for areas subject to thorough cleaning or strict hygiene conditions or bathrooms, given its high porosity.











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005756
ITEM	LMNKB BLUE MOON TAUPE
FORMAT	120 X 60
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	<div>5</div> High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm. Do not bond more than 20%.





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE ⁽¹⁾
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE ⁽²⁾
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE ⁽³⁾
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE ⁽⁴⁾
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	2376 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm ²	42 N/mm ²
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm ³
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	$9 \cdot 10^{-6} \text{ K}^{-1}$	$6,2 \cdot 10^{-6} \text{ K}^{-1}$
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

NPD: No performance determined






CHEMICAL PROPERTIES

			TEST-NORM	NORM ISO 13006	LIMONE-KB
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	A ⁽⁵⁾
	RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5 ⁽⁶⁾

(5) Classes UA, ULA and UHA mean that no visual effect is observed if a test solution is applied.

(6) Class 5 means that the stains produced with test solutions can be cleaned with a wet cloth.

DIMENSION TEST-NORM ISO 10545-2

		NORM ISO 13006		LIMONE-KB	
	LENGTH	±0,3%	±1,00mm	±0,04%	1200,0±0,50mm
	WIDTH	±0,3%	±1,00mm	±0,08%	600,0±0,50mm
	THICKNESS	±5,00%	±0,50mm	±5,00%	10,0 ±0,50mm
	STRAIGHTNESS OF SIDES	±0,3%	±0,80mm	±0,04%	≤0,50 mm
	SQUARENESS	±0,3%	±1,50mm	±0,07%	≤0,80 mm
	LATERAL SURFACE FLATNESS / WARPAGE	±0,4%	± 1,80mm	+0,08% / -0,04%	+0,90mm / -0,50mm

RECOMMENDED JOINTS BY TYPE OF SURFACE

	INDOOR FLOORS		INDOOR WALLS		OUTDOOR FLOORS		FAÇADES		SUGGESTED SALES PRODUCT
	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	UNE EN 13888
TILE JOINT	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	≥3mm	In the whole surface	≥2,5 mm	In the whole surface	WALL OR FLOOR TILES: Fugabella ECO Porcelana 0-5 (CG2*WA) (0 - 5 mm) FAÇADES: Fugabella ECO 2-12 (CG2*WA) (2 - 12 mm)
PERIMETER JOINT	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface and inner corners and, in general, at special points where movement in the ceramic tiles is needed	Fugabella ECO PU (8 - 35 mm)
EXPANSION/PARTITION JOINT	≥5 mm	40 - 80 m²	≥5 mm	40 - 80 m²	≥5 mm	20 - 40 m² or very 8 to 10 linear metres	8 - 10 mm		Fugabella ECO PU (8 - 35 mm)
STRUCTURAL JOINT	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	Fugabella ECO PU 40 (6 - 35 mm)

Tile joint: Joints between adjoining tiles designed to offset expansion and contraction and to conceal slight dimensional differences in the pressed tiles.

Perimeter joint: Joints that must be left round the edges of wall and floor surfaces and round vertical elements like columns, partition walls etc.

Expansion/partition joint: Joints that run between tiles, dividing up a tiled surface or its length, depending on the location of the tiled surface, indoors or out. They are designed to offset expansion and contraction and to conceal slight nominal differences in the pressed tiles.

Structural joint: Joints in the substrate to absorb possible structural movements, regardless of the type of covering bonded to it. For this reason, structural joints coinciding with the ones in the substrate must also be left between the tiles.

TYPES OF GROUTING MATERIALS

CG1: Normal cementitious grouts

CG2: Improved cementitious grouts

RG: Synthetic resins (generally epoxy)

L: Portland cement grout, only recommended for undemanding situations, such as indoor areas with no additional stresses. Not recommended for areas subject to thorough cleaning or strict hygiene conditions or bathrooms, given its high porosity.











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005757
ITEM	LMNKB BLUE MOON BLACK
FORMAT	90 X 90
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH SUBSTANTIAL SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	<div>5</div> High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE ⁽¹⁾
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE ⁽²⁾
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE ⁽³⁾
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE ⁽⁴⁾
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	1910 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm ²	36 N/mm ²
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm ³
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	$9 \cdot 10^{-6} \text{ K}^{-1}$	$6,2 \cdot 10^{-6} \text{ K}^{-1}$
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

NPD: No performance determined






CHEMICAL PROPERTIES

			TEST-NORM	NORM ISO 13006	LIMONE-KB
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	HB ⁽⁵⁾
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	B ⁽⁵⁾
	RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5 ⁽⁶⁾

(5) Classes UA, ULA and UHA mean that no visual effect is observed if a test solution is applied. Classes UB, ULB and UHB mean that a change in aspect is observed. Only neutral products are recommended.

(6) Class 5 means that the stains produced with test solutions can be cleaned with a wet cloth.

DIMENSION TEST-NORM ISO 10545-2

		NORM ISO 13006		LIMONE-KB	
	LENGTH	±0,3%	±1,00mm	±0,06%	901,0±0,50mm
	WIDTH	±0,3%	±1,00mm	±0,06%	901,0±0,50mm
	THICKNESS	±5,00%	±0,50mm	±5,00%	9,5 ±0,48mm
	STRAIGHTNESS OF SIDES	±0,3%	±0,80mm	±0,07%	≤0,60 mm
	SQUARENESS	±0,3%	±1,50mm	±0,07%	≤0,60 mm
	LATERAL SURFACE FLATNESS / WARPAGE	±0,4%	± 1,80mm	+0,10% / -0,07%	+0,90mm / -0,60mm

RECOMMENDED JOINTS BY TYPE OF SURFACE

	INDOOR FLOORS		INDOOR WALLS		OUTDOOR FLOORS		FAÇADES		SUGGESTED SALES PRODUCT
	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	UNE EN 13888
TILE JOINT	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	≥3mm	In the whole surface	≥2,5 mm	In the whole surface	WALL OR FLOOR TILES: Fugabella ECO Porcelana 0-5 (CG2*WA) (0 - 5 mm) FAÇADES: Fugabella ECO 2-12 (CG2*WA) (2 - 12 mm)
PERIMETER JOINT	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface and inner corners and, in general, at special points where movement in the ceramic tiles is needed	Fugabella ECO PU (8 - 35 mm)
EXPANSION/PARTITION JOINT	≥5 mm	40 - 80 m²	≥5 mm	40 - 80 m²	≥5 mm	20 - 40 m² or very 8 to 10 linear metres	8 - 10 mm		Fugabella ECO PU (8 - 35 mm)
STRUCTURAL JOINT	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	Fugabella ECO PU 40 (6 - 35 mm)

Tile joint: Joints between adjoining tiles designed to offset expansion and contraction and to conceal slight dimensional differences in the pressed tiles.

Perimeter joint: Joints that must be left round the edges of wall and floor surfaces and round vertical elements like columns, partition walls etc.

Expansion/partition joint: Joints that run between tiles, dividing up a tiled surface or its length, depending on the location of the tiled surface, indoors or out. They are designed to offset expansion and contraction and to conceal slight nominal differences in the pressed tiles.

Structural joint: Joints in the substrate to absorb possible structural movements, regardless of the type of covering bonded to it. For this reason, structural joints coinciding with the ones in the substrate must also be left between the tiles.

TYPES OF GROUTING MATERIALS

CG1: Normal cementitious grouts

CG2: Improved cementitious grouts

RB: Synthetic resins (generally epoxy)

L: Portland cement grout, only recommended for undemanding situations, such as indoor areas with no additional stresses. Not recommended for areas subject to thorough cleaning or strict hygiene conditions or bathrooms, given its high porosity.











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005758
ITEM	LMNKB BLUE MOON GREY
FORMAT	90 X 90
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH SUBSTANTIAL SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	5 High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE ⁽¹⁾
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE ⁽²⁾
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE ⁽³⁾
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE ⁽⁴⁾
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	1910 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm ²	36 N/mm ²
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm ³
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	$9 \cdot 10^{-6} \text{ K}^{-1}$	$6,2 \cdot 10^{-6} \text{ K}^{-1}$
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

NPD: No performance determined






CHEMICAL PROPERTIES

			TEST-NORM	NORM ISO 13006	LIMONE-KB
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	LA ⁽⁵⁾
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
		POTASSIUM HYDROXIDE (ÁLKALI)	ISO 10545-13	Manufacturer's declaration	HA ⁽⁵⁾
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	A ⁽⁵⁾
	RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5 ⁽⁶⁾

(5) Classes UA, ULA and UHA mean that no visual effect is observed if a test solution is applied.

(6) Class 5 means that the stains produced with test solutions can be cleaned with a wet cloth.

DIMENSION TEST-NORM ISO 10545-2

		NORM ISO 13006		LIMONE-KB	
	LENGTH	±0,3%	±1,00mm	±0,06%	901,0±0,50mm
	WIDTH	±0,3%	±1,00mm	±0,06%	901,0±0,50mm
	THICKNESS	±5,00%	±0,50mm	±5,00%	9,5 ±0,48mm
	STRAIGHTNESS OF SIDES	±0,3%	±0,80mm	±0,07%	≤0,60 mm
	SQUARENESS	±0,3%	±1,50mm	±0,07%	≤0,60 mm
	LATERAL SURFACE FLATNESS / WARPAGE	±0,4%	± 1,80mm	+0,10% / -0,07%	+0,90mm / -0,60mm

RECOMMENDED JOINTS BY TYPE OF SURFACE

	INDOOR FLOORS		INDOOR WALLS		OUTDOOR FLOORS		FAÇADES		SUGGESTED SALES PRODUCT
	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	MINIMUM WIDTH	MAXIMUM SURFACE AREA	UNE EN 13888
TILE JOINT	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	Non-rectif ≥ 2,5mm. Rectified ≥ 2mm	In the whole surface	≥3mm	In the whole surface	≥2,5 mm	In the whole surface	WALL OR FLOOR TILES: Fugabella ECO Porcelana 0-5 (CG2*WA) (0 - 5 mm) FAÇADES: Fugabella ECO 2-12 (CG2*WA) (2 - 12 mm)
PERIMETER JOINT	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface in rooms of over 7m²	≥5 mm	Round the perimeter of the surface and inner corners and, in general, at special points where movement in the ceramic tiles is needed	Fugabella ECO PU (8 - 35 mm)
EXPANSION/PARTITION JOINT	≥5 mm	40 - 80 m²	≥5 mm	40 - 80 m²	≥5 mm	20 - 40 m² or very 8 to 10 linear metres	8 - 10 mm		Fugabella ECO PU (8 - 35 mm)
STRUCTURAL JOINT	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	The width of the structural joint in the substrate. It must include a bead of polyurethane or compensation profile	Continuing the structural joint of the building	Fugabella ECO PU 40 (6 - 35 mm)

Tile joint: Joints between adjoining tiles designed to offset expansion and contraction and to conceal slight dimensional differences in the pressed tiles.

Perimeter joint: Joints that must be left round the edges of wall and floor surfaces and round vertical elements like columns, partition walls etc.

Expansion/partition joint: Joints that run between tiles, dividing up a tiled surface or its length, depending on the location of the tiled surface, indoors or out. They are designed to offset expansion and contraction and to conceal slight nominal differences in the pressed tiles.

Structural joint: Joints in the substrate to absorb possible structural movements, regardless of the type of covering bonded to it. For this reason, structural joints coinciding with the ones in the substrate must also be left between the tiles.

TYPES OF GROUTING MATERIALS

CG1: Normal cementitious grouts

CG2: Improved cementitious grouts

RG: Synthetic resins (generally epoxy)

L: Portland cement grout, only recommended for undemanding situations, such as indoor areas with no additional stresses. Not recommended for areas subject to thorough cleaning or strict hygiene conditions or bathrooms, given its high porosity.











TECHNICAL DATA OF PRODUCT

-CONTROL LABORATORY-

CODE	P0005759
ITEM	LMNKB BLUE MOON TAUPE
FORMAT	90 X 90
GROUP	Bla – Annex G – DOP PPBIA-001
BODY	COLOURED BODY PORCELAIN
FINISH	SEMI-POLISHED PRODUCT WITH SUBSTANTIAL SHADE VARIATION
CLASS	Unglazed
ANALISIS OF PRODUCTION (Constant test)	2023
RECOMMENDATIONS FOR USE	<div>5</div> High traffic. Commercial areas, halls and public buildings
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.
PATTERN	9
FIXING	Minimal grout joint: interiors 2 mm/exteriors 3 mm





TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

PHYSICAL PROPERTIES

		TEST-NORM	PRESCRIBED VALUE OF NORM	LIMONE-KB
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