# **Technical specifications**

Sarlon 15 dB, Sarlon 19 dB and Modul'up 19 dB meet the requirements of EN 651 and ISO 11638

	Modul'up Compact meet the requi	rements of EN 10582				
			Sarlon 15 dB	Sarlon 19 dB	Modul'up 19 dB	Modul'up Compact
Ě	Total thickness	EN ISO 24346	2.6 mm	3.4 mm	3.45 mm	2.0 mm
$\stackrel{\sim}{\Longrightarrow}$	Wear layer thickness	EN ISO 24340	0.70 mm	0.70 mm	0.70 mm	0.70 mm
ůů.	Commercial use	EN ISO 10874	34	34	34	34
Ä	Industrial use	EN ISO 10874	42	42	42	43
	Packaging		Rolls	Rolls	Rolls	Rolls
	Roll length	EN ISO 24341	25 ml	25 ml	25 ml	25 ml
	Roll width	EN ISO 24341	2 m	2 m	2 m	2 m
	Total weight	EN ISO 23997	2.700 g/m <sup>2</sup>	2.900 g/m <sup>2</sup>	2.830 g/m <sup>2</sup>	2.600 g/m <sup>2</sup>
	Impact sound reduction	EN ISO 717-2	$\Delta Lw = 15 dB$	ΔLw = 19 dB	$\Delta Lw = 19 dB$	n.a.
(0)	In-room impact noise	NF S 31-074	Ln,e,w < 65 dB, Class A	Ln,e,w < 65 dB, Class A	Ln,e,w < 65 dB, Class A	Ln,e,w < 75 dB, Class B
((e)	Sound absorption	EN ISO 354 EN ISO 11654	$\alpha_{_{\scriptscriptstyle W}} = \pm~0.05$	$\alpha_{_{\scriptscriptstyle W}} = \pm~0.05$	$\alpha_{_W} = \pm 0.05$	$\alpha_{_W} = \pm 0.05$
	Residual indentation typical value Requirement	EN ISO 24343-1	0.05 mm ≤ 0.20 mm	0.08 mm ≤ 0.20 mm	0.08 mm ≤ 0.20 mm	0.02 mm ≤ 0.10 mm
98	Slip resistance	DIN 51130	R10	R10	R10	R10
	Abrasion resistance	EN 660-2	Т	Т	Т	Т
	Castor chair resistance	ISO 4918	Yes	Yes	Yes	Yes
	Furniture leg resistance	EN ISO 16581	compliant	compliant	compliant	compliant
K Z	Dimensional stability	EN ISO 23999	≤ 0.10 %	≤ 0.10 %	≤ 0.10 %	≤ 0.10 %
R	Colour fastness to light Requirement	EN ISO 105-B02	7 ≥6	7 ≥6	7 ≥ 6	7 ≥6
	Stain resistance	EN ISO 26987	Excellent	Excellent	Excellent	Excellent
	Surface treatment		XtremPUR <sup>tm</sup>	XtremPUR <sup>tm</sup>	XtremPUR <sup>tm</sup>	XtremPUR <sup>tm</sup>
	Emissions into air: TVOC* at 28 days	EN 16516	≤ 0.01 mg/m³	≤ 0.01 mg/m³	≤ 0.01 mg/m³	≤ 0.01 mg/m³
	REACH (European regulation)	1907/2006/CE	compliant (1)	compliant (1)	compliant (1)	compliant (1)
(€	Compliance EN 14041		0200860-DOP-010	0200860-DOP-010	0200859-DOP-010	0200862-DOP-010
L NCS	Reaction to fire	EN 13501-1	B <sub>fl</sub> - s1, L, NCS	B <sub>fl</sub> - s1, L, NCS	B <sub>fl</sub> - s1, L, NCS	B <sub>n</sub> - s1, L, NCS
9 E	Slip resistance	EN 13893	μ ≥ 0.30	μ ≥ 0.30	μ≥ 0.30	μ≥ 0.30
75A 220 W	Body voltage	EN 1815	≤ 2 kV	≤ 2 kV	≤ 2 kV	≤ 2 kV
	Thermal conductivity (2)	EN 12524 (EN ISO 10456)	0.25 W/(m.K)	0.25 W/(m.K)	0.25 W/(m.K)	0.25 W/(m.K)



True products are suitable for underfloor heating.
 To strictly follow the Forbo cleaning recommendation process is the best protection against infection.
 TVOC: total volatile organic compounds

All Forbo Flooring Systems' sales organisations worldwide have a certified Quality Management System in accordance with ISO 9001.

All Forbo Flooring Systems' manufacturing operations have a certified Environmental Management System in accordance with ISO 14001.

The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental Product Declarations (EPD's) which can be found on all of our websites.

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**Other Countries** 

**Czech Republic** 





**Acoustic vinyl** 

# sarlon<sup>®</sup> 15dB | 19dB Glue down flooring modul'up<sup>®</sup> 19dB | compact Loose lay flooring









# **DIVERSITY,**BETTER TOGETHER

We live in a demanding world. The criteria for decision making in projects are diverse, but in all cases the very best is expected for the performance of the floor. This collection offers the most comprehensive and qualitative answer to all your needs.

# **Diversity**

Forbo Flooring proudly presents one concept with an unprecedented diversity of products. Acoustic, compact and compact acoustic; glued or fully loose laid. Everything is covered in this concept. And looking at the designs, it is hard to imagine a concept with more diversity in patterns.

XtremPUR™ is an extremely high-performance lacquer protection which provides the best possible resistance against stains, scuffs and scratches and provides a matt aesthetic.

# **Better together**

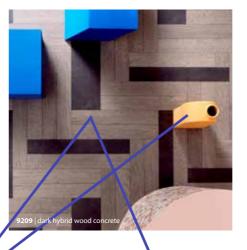
All elements in this range sparkle in their individual diversity and quality, but we also found ways to create connections and commonality. We are sure that all elements work better together.

XtremPUR™ is on every single product of the range, all designs are available in all products and the design concept is connected into one easy to understand and use constellation. It is possible to combine different functionalities in a project.

Sarlon and Modul'up are better together.













#### **DYNAMICS OF A BUILDING**

The Dynamic of a Building philosophy no longer looks at the traditional split in segments, but works from a philosophy that is based on the identity a space has and what function it has for the users. In a project there are many functions that need to be fulfilled and using this identity as a guiding system works on ensuring the optimal atmosphere and design in a building.

#### There are 5 dynamics

- Receiving
- Moving
- Connecting
- Concentrating
- Recharging

Each dynamic has its own unique colour dialogue with its genuine identity created by the contrast, intensity and positioning of the colours. It is the overall expression of the selected colours that represents the defined atmosphere. The individual colours can easily be updated when needed whilst keeping the total feel intact.

# **BETTER** TOGETHER

Forbo Flooring produces a wide variety of ranges, designed by a large team of designers from around the globe. They all work according to similar design principles in which the dynamics of a building play an important role. They all work together to create a global colour card, based on the latest trends and projections for the future. This means that different ranges can compliment each other and when different functionalities are required for a project it is always possible to combine different Forbo Flooring products. When there is a need they do work better together.

For this range we have taken the concept a step further. All individual designs and colours have their own story and strength, suitable for use in a huge variety of applications. But this range was build in a constellation that is not just offering these individual "stars", but also show very strong links between the elements to create a full concept. The `moodboard' above shows how several designs from this collection can be used alongside each other to produce a complementary floor design that is both visually striking and high performing.

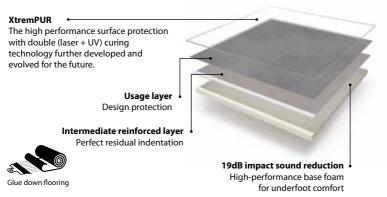
Because, as you know, if something is done well the end result is bigger than just the sum of individual parts. And this is what we show: **we are better together.** 





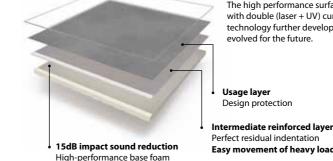
# Sarlon 19dB

The best acoustic **high traffic** product in the market. Highest acoustic sound reduction of 19dB. Best residual indentation for a 19 dB acoustic product. High performance characteristics in all other areas.









Compact backing dimensionally stable

· Very low indentation value

Easy rolling

#### Sarlon 15dB The high performance surface protection with double (laser + UV) curing

The **best compromise** on acoustic and high load requirements. Low residual indentation, suitable for heavy loads. 15dB acoustic performance for additional comfort at high performance. A unique product proposition in the market.

# Modul'up 19dB

The best **fully loose laid** sheet acoustic solution. Quick installation (without disturbing occupied areas), immediate use possible. Long term benefit of very quick replacement and removal, saving money over time. Offering all benefits of the best performing acoustic with less overall material.







## **XtremPUR**

**XtremPUR** 

technology further developed and

evolved for the future.

The high performance surface protection with last generation double (laser + UV) curing technology

- Easy cleaning
- Extreme resistance to stain and chemical Enhance design look
- Lifetime wear resistance ?

D3s Core

#### Double structural stabilisation system

- · Loose-lay installation Perfect dimensional stability
- · Heavy-duty resistance



# **Modul'up compact**

The best fully loose lay sheet compact solution. Speed of installation and renewal reduces downtime and is immediately **ready for use** after installation. Compact and strong **solution for heavy traffic** and intense use. Possibility to use over existing flooring, no need to remove on many occasions.



All constructions are available in all colours of our acoustic and loose lay offer.



# **Sound reduction**

There are two different types of sound that can impact your working or living environment. The **in-room impact** sound is related to impact sound in the room itself. You want to reduce this to create a more calm and pleasant environment. All products in this range offer a lot of sound reduction and are rated Class A, so best possible class and will bring this benefit to create a better environment.

**Impact sound** relates to the sound that is transmitted through the floor from one level to the level below. Reducing this impact sound is a critical characteristic in more and more environments and with our 19dB products we offer the best possible improvement on impact sound from rooms above, as measured in EN ISO 717-2. In combination with the other superior performance characteristics Forbo Flooring is really leading in this important contributor to well being in many occasions.

# **Indentation resistance**

Floors need to be strong to remain beautiful and indentation under pressure can be a major issue. For projects where sound reduction is the key priority, our 19 dB solutions offer excellent acoustic properties with residual indentation performance that's best in class. For areas where sound reduction is required but the floor covering may be subjected to very heavy or rolling loads, Sarlon 15 dB will give you the optimum balance between acoustic performance and residual indentation.

When pressure is applied continuously or with very acute pressure points (for example, a table leg) then a compact solution is recommended. Modul'up Compact offers the highest resistance to residual indentation, with the additional benefit of an adhesive free installation.





Ultimate protection for Sarlon and Modul'Up. **Better together**!

The high performance surface protection with double (laser + UV) curing technology further developed and evolved for the future.



# **Stain resistant**

The XtremPUR™ lacquer offers the best possible resistance against stains. This collection is ideal for the healthcare segment where potential chemical spillages may cause stains.

Result after cleaning with water and neutral detergent according to the EN ISO 26987 standard

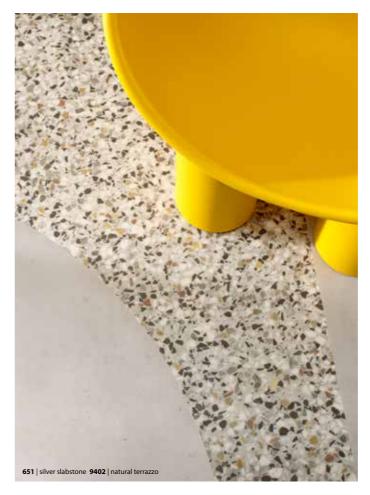
		Contact time	Regular PUR lacquer	XtremPUR lacquer
Poster State of State of State of State of	Betadine alcoholic solution	After 30 minutes		
Andrew Process of the Control of the	betaunie alconolic solution	After 2 hours		
	Eosin alcoholic solution	After 30 minutes	•	
	EOSIN alcoholic solution	After 2 hours		
Princepolis	Potassium permanganate	After 30 minutes	•	
Section 2.		After 2 hours	•	

## Permanent marker test with regular eraser



Permanent marker Onyx
Only with XtremPUR the permanent
marker stains can be easily and totally
removed with a regular eraser.





# Easy to clean in minimal time at reduced costs

Xtrem PUR creates a 3D surface protection acting as a true shield against soiling. The floor is easy to clean and needs no wax or polish. This also saves time and money when cleaning the floors



# **Durable and longlasting**

Tested in the most intensive and aggressive conditions. Xtrem PUR surface protection shows excellent performance against scuffs and scratches. Xtrem PUR is the most durable solution. It remains beautiful over time even in high trafic or demanding areas.



Xtrem PUR improves the visual of the flooring giving it a more realistic and less glossy appearance.



Extreme resistance to scratch after abrasive sand test (300 cycles) compare to standard PUR surface treatment



# The acoustic solution

# sarlon® 19 dB

Sarlon has a long history of being the best acoustic product on the market. The 19dB acoustic performance and comfort, in combination with the best residual indentation has given this product the leading acoustic position over years. This will not change.

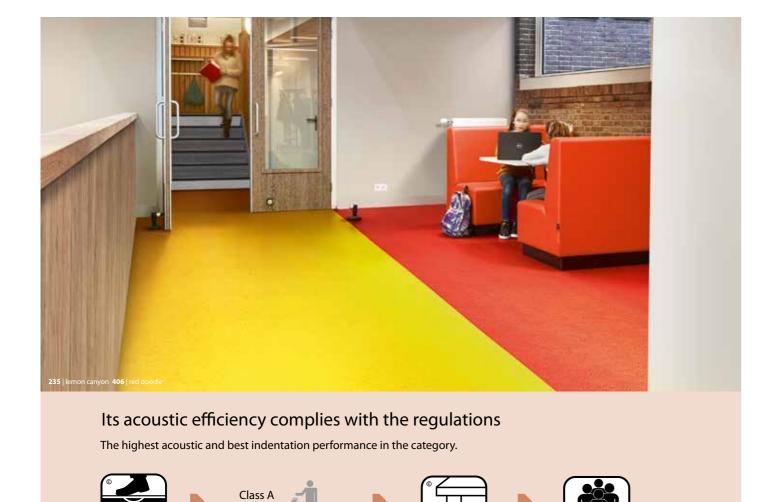
The performance of this product is further enhanced through the introduction of Xtrem PUR™ to Sarlon 19dB which brings many additional benefits in the use of this product.

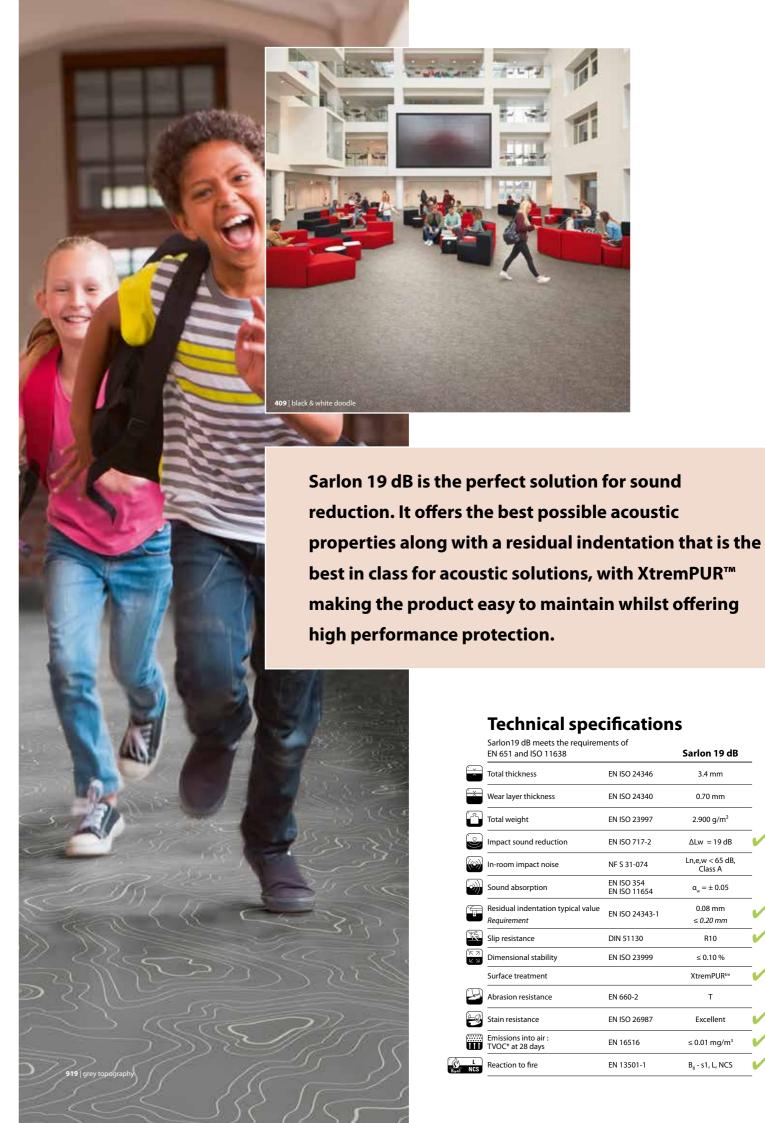
This means Sarlon 19dB remains beautiful over the years of usage. The beauty of the over 90 options in colour and design will remain beautiful throughout the life time of the product.

It can be used in any project where acoustic and heavy traffic needs to be combined

> Sarlon 19dB is the most comfortable and easy to use solution for high

traffic areas.





# **Technical specifications**

Sarlon19 dB meets the requirem EN 651 and ISO 11638	Sarlon19 dB meets the requirements of EN 651 and ISO 11638			
Total thickness	EN ISO 24346	3.4 mm		
Wear layer thickness	EN ISO 24340	0.70 mm		
Total weight	EN ISO 23997	2.900 g/m <sup>2</sup>		
Impact sound reduction	EN ISO 717-2	$\Delta Lw = 19 dB$		
In-room impact noise	NF S 31-074	Ln,e,w < 65 dB, Class A		
Sound absorption	EN ISO 354 EN ISO 11654	$\alpha_{_{\rm W}} = \pm 0.05$		
Residual indentation typical value Requirement	EN ISO 24343-1	0.08 mm ≤ 0.20 mm		
Slip resistance	DIN 51130	R10		
Dimensional stability	EN ISO 23999	≤ 0.10 %		
Surface treatment		XtremPUR <sup>tm</sup>		
Abrasion resistance	EN 660-2	Т		
Stain resistance	EN ISO 26987	Excellent		
Emissions into air : TVOC* at 28 days	EN 16516	≤ 0.01 mg/m³		
Reaction to fire	EN 13501-1	B <sub>fl</sub> - s1, L, NCS		

# The hybrid solution without compromise sarlon® 15 dB

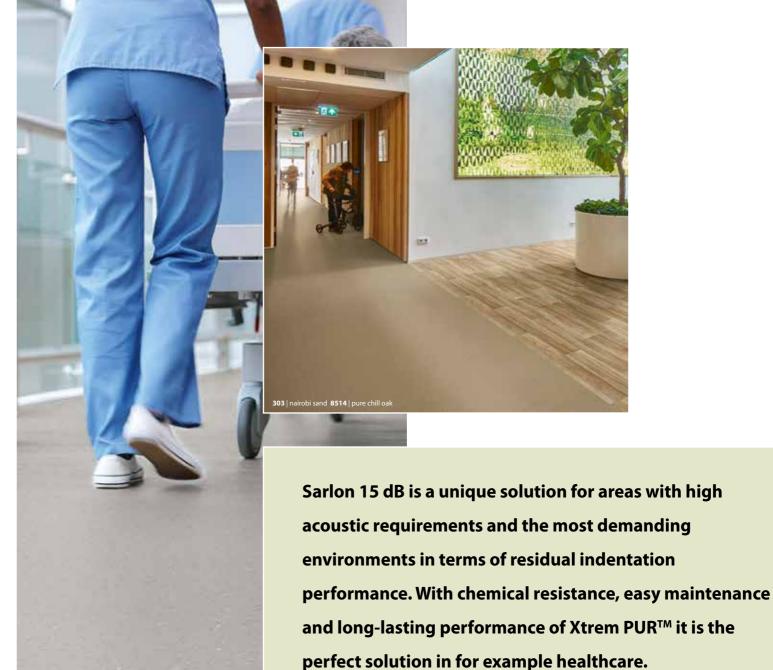
Sarlon is offering a unique product proposition in the market. Particularly for very demanding circumstances with heavy loads and intense traffic this product combines very good acoustic properties in combination with performance characteristics that are normally expected from a compact product. A true compact acoustic product.

The full range of over 90 items is available in this one of a kind solution that is finding its way successfully already for many years in to a wide variety of demanding projects.

The wide choice of aesthetics and colours makes it suitable for many dynamic environments.

The Xtrem PUR protection that is introduced with this new collection will ensure a high quality performance with easy maintenance for many years of use.





# **Technical specifications**

EN 651 and ISO 11638		Sarlon 15 dB
Total thickness	EN ISO 24346	2.6 mm
Wear layer thickness	EN ISO 24340	0.70 mm
Total weight	EN ISO 23997	2.700 g/m <sup>2</sup>
Impact sound reduction	EN ISO 717-2	$\Delta Lw = 15 dB$
In-room impact noise	NF S 31-074	Ln,e,w < 65 dB, Class A
Sound absorption	EN ISO 354 EN ISO 11654	$\alpha_{_{W}} = \pm 0.05$
Residual indentation typical value Requirement	EN ISO 24343-1	0.05 mm ≤ 0.20 mm
Slip resistance	DIN 51130	R10
Dimensional stability	EN ISO 23999	≤ 0.10 %
Surface treatment	-	XtremPUR <sup>tm</sup>
Abrasion resistance	EN 660-2	Т
Stain resistance	EN ISO 26987	Excellent
Emissions into air : TVOC* at 28 days	EN 16516	≤ 0.01 mg/m³
Reaction to fire	EN 13501-1	B <sub>e</sub> - s1, L, NCS

# Committed to the future

# modul'up®

Modul'up is the best loose lay floor covering available for high traffic applications. It can be installed quickly without adhesives, but is even more time and cost efficient at time of replacement. Millions of m² has been sold around the world which has proven that the Modul'up adhesive free concept is trusted and reliable. The range is suitable for sustainable solutions due to the reusability of the product.

Modul'up is available in an acoustic (19 dB) and compact version. Both formats offer the best possible quality and durability, now enhanced with the introduction of XtremPUR™ protection on all products. Both have the benefit of not having to use installation adhesive and are very suitable for busy areas: installation time is reduced by up to

50% compared to standard, glued down products and there is minimal disruption or lingering adhesive odours. Modul'up can be walked on immediately after installation. As minimal subfloor preparation is required, over 20% of costs can be saved when using Modul'up compared to a standard, glued down product.

The full range in acoustic and compact is available in over 90 designs and colours, which makes this a concept that can be used in a wide diversity of applications and dynamics.

Both products offer the benefits that can be expected from products in the acoustic and compact category. It offers you solutions for every requirement, now and in the future.

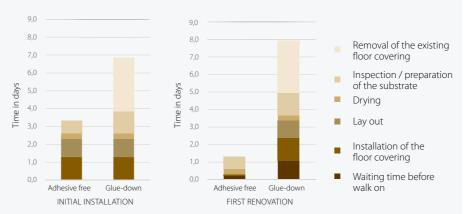
# 37 | indigo blue canvas 307 | pastel blue nairob Perfect dimensional stability | Dimensional stability test EN-ISO 23999 Shrinkage (bonded Expansion installation) of $\leq 0.40\%$ Requirement of the standard of ≤ 0.40% >-----Shrinkage (loose lay) Expansion from 0 to 0.05% Modul'up from 0 to 0.05% **Resistantance to extreme stresses** Results of the furniture leg resistance EN 424 (ISO 16581) Forbo specific 115 kg test **MODUL'UP** GLUE-DOWN VINYL FLOOR COVERINGS standard 32 kg test **MODUL'UP** No surface damage Surface damage Folds

#### **NEW BUILDS**

- · Shorter installation times
- · Reduced maintenance and service costs
- Same supplied & fitted price as a glue-down floor covering (initial installation)

#### RENOVATIONS

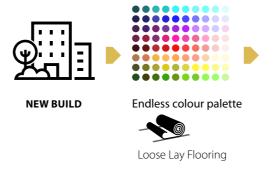
- Installation while premises are in use without any disruption (noise, dust, adhesive odours etc.)
- · Instantly ready for use after installation
- Possibility of covering old floor tiles (ceramic tiles, compact vinyl, etc.)





# Modul'up adhesive free floors, the advantages at a glance







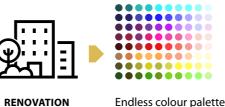
Quick installation, immediate use, saving money and time



Lay flat, stay flat technology. No movement of floor.



Superior performance



Loose Lay Flooring



In most case no subfloor preparation necessary



Quick installation and no downtime, saving money and time Future rep

Future replacement like for like, more time saving and circular opportunities



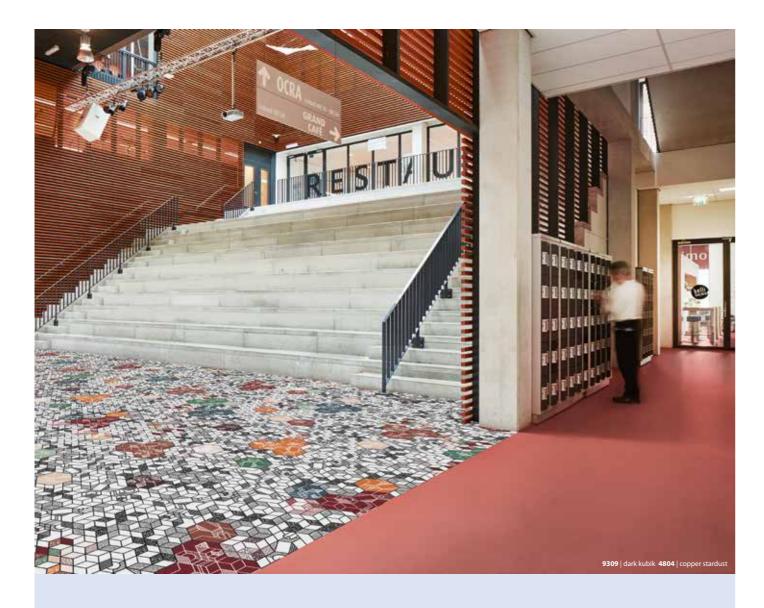
# Loose lay flooring, the circular solution modul'up® 19dB and compact

#### Modul'up 19 dB

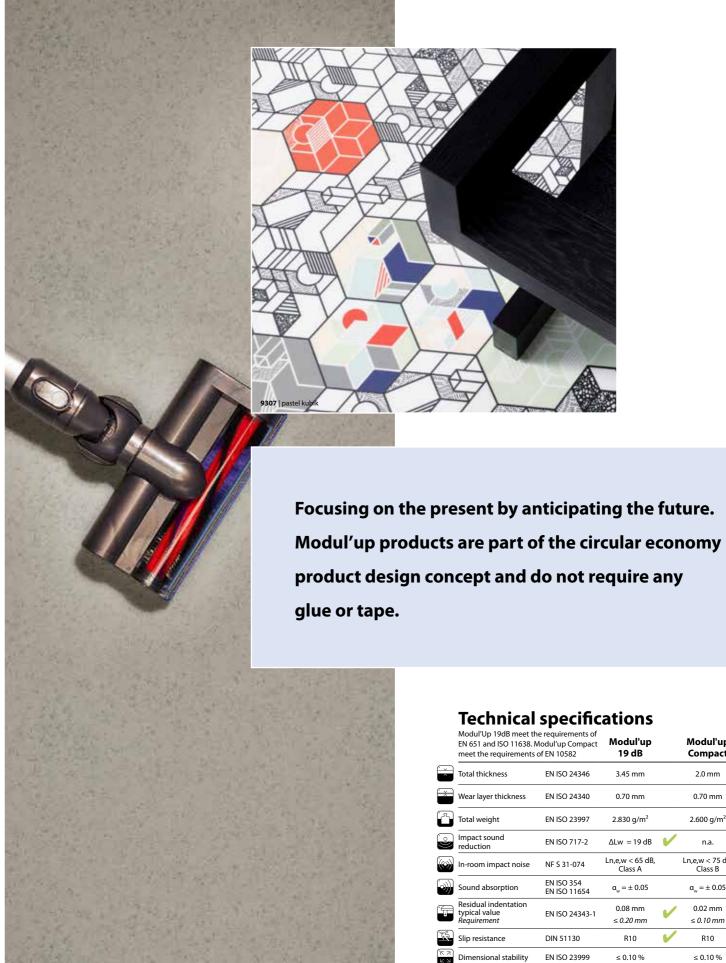
- The adhesive free acoustic sheet solution
- · Rapid installation with minimal downtime and disturbance, and can be walked on immediately after use
- Long term benefit of very quick removal, replacement and end of life recycling or reuse, saving money over time
- As part of Forbo's Fast Flooring collection, Modul'up can reduce downtime by over 50% compared to standard, glued down products

#### Modul'up compact

- The adhesive free compact solution
- Speed of installation and renewal reduces downtime and is immediately ready for use after installation.
- High performance for heavy traffic and intense use, including where rolling loads may be part of the everyday use
- Can be installed over existing flooring in many instances, removing the need for expensive and time-consuming subfloor preparatio



Modul'up is a proven adhesive free solution with millions m<sup>2</sup> installed around the world.



Modul'Up 19dB meet the requirements of EN 651 and ISO 11638. Modul'up Compact meet the requirements of EN 10582		Modul'up 19 dB		Modul'up Compact	
Total thickness	EN ISO 24346	3.45 mm		2.0 mm	_
Wear layer thickness	EN ISO 24340	0.70 mm		0.70 mm	_
Total weight	EN ISO 23997	2.830 g/m <sup>2</sup>		2.600 g/m <sup>2</sup>	
Impact sound reduction	EN ISO 717-2	$\Delta Lw = 19 dB$	<b>V</b>	n.a.	_
In-room impact noise	NF S 31-074	Ln,e,w < 65 dB, Class A		Ln,e,w < 75 dB, Class B	
Sound absorption	EN ISO 354 EN ISO 11654	$\alpha_{_{W}} = \pm 0.05$		$\alpha_w = \pm 0.05$	
Residual indentation typical value Requirement	EN ISO 24343-1	0.08 mm ≤ 0.20 mm	~	0.02 mm ≤ 0.10 mm	
Slip resistance	DIN 51130	R10	V	R10	
Dimensional stability	EN ISO 23999	≤ 0.10 %		≤ 0.10 %	
Surface treatment		XtremPUR <sup>tm</sup>	~	XtremPUR <sup>tm</sup>	
Abrasion resistance	EN 660-2	Т		Т	
Stain resistance	EN ISO 26987	Excellent	<b>V</b>	Excellent	
Emissions into air : TVOC* at 28 days	EN 16516	≤ 0.01 mg/m³	<b>/</b>	≤ 0.01 mg/m³	
Reaction to fire	EN 13501-1	B <sub>fl</sub> - s1, L, NCS	~	B <sub>fl</sub> - s1, L, NCS	

# Installation and complementary products

# Modul'up single-sided tape

Modul'up tape is part of the Modul'up system. To get all the benefits of a complete adhesive free installation, Forbo Flooring recommends the use of the Modul'up tape.



# **PVC** welding rod

Matching welding rods exist for all items in this collection. Look at our website for the full offer.



# 311 | light grey zebrano 632199 | linea light grey, nose black

# **Sarlon Complete Step**

An acoustic PVC floor covering that is specially made for installation on staircases. Thanks to the foam backing, Sarlon Complete Step ensures a good sound insulation of 17 dB. The stair nosing is integrated in the structure and has a different colour allowing a visible contrast.



# **Entrance Flooring**

Entrance flooring is fundamental to modern building design. A well designed entrance flooring system will prevent dirt and moisture from being tracked in and thereby prolonges the life of interior flooring, reduces cleaning & maintenance costs and the potential for slip injuries. With both textile (Coral) and rigid (Nuway) Entrance Systems in our portfolio, we can offer an entrance solution for every situation.

# Other acoustic and loose lay solutions



Acoustic Luxury vinyl tiles and planks come together in our **Allura decibel** collection.



When both acoustics and slip safety are important, you can choose **Surestep decibel** 



Our natural Marmoleum combined with an acoustic layer, we offer **Marmoleum decibel** for noise reduction



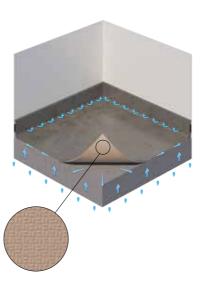
Pop up stores, supermarkets, large areas can be quickly updated with **Allura puzzle.** 



Quick installation and no downtime can be realised with our loose lay luxury vinyl tiles **Allura Ease.** 



Our luxury vinyl tiles **Allura click** can be linked together and ensure a solid loose lay solution.



# Modul'up TE

The solution for damp sub floors. Installation of flooring on damp sub floors is a general issue in the market. Current solutions mostly contain a combination of products requiring a long, complex and costly installation process. Modul'up TE is an easy, economic and hassle-free solution for installation on damp subfloors. It can be installed in heavy traffic areas and it offers the benefits of loose lay installation.

# Collection overview



8412 | grey silver oak



**8420** | clay oak xl LRV 23%



8422 | carbon oak xl LRV 16%



8483 | scandinavian oak LRV 32%



8413 | natural oak LRV 32%



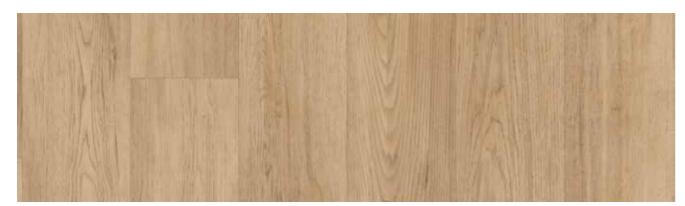
**8421** | polar oak LRV 39%



8412 | grey silver oak LRV 26%



8513 | blond chill oak, 9406 | coral terrazzo



8513 | blond chill oak LRV 29%



8514 | pure chill oak LRV 27%



8512 | smoked chill oak LRV 25%

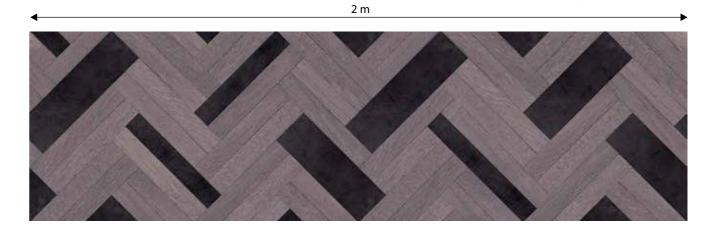


9201 | light hybrid wood concrete



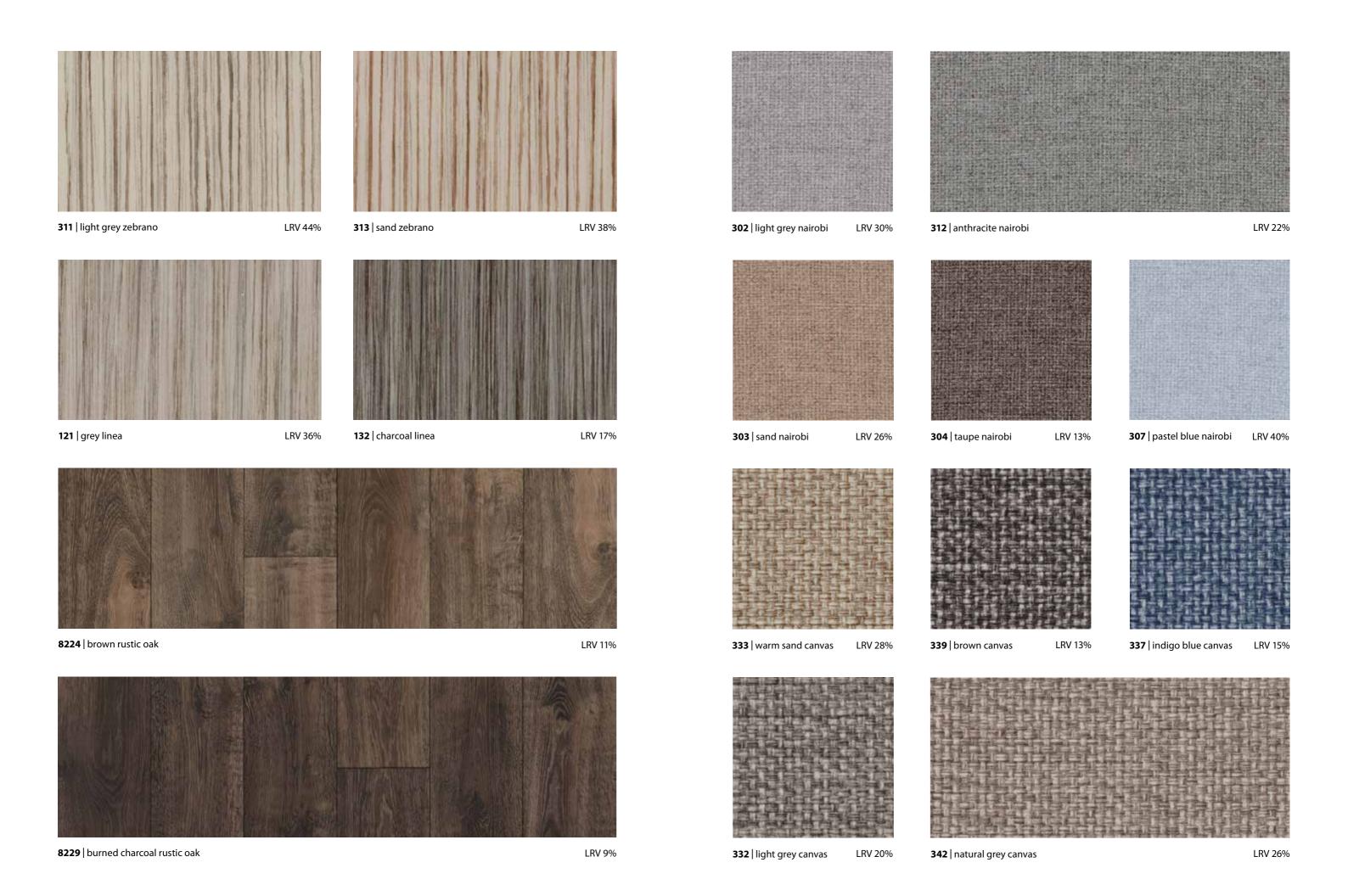


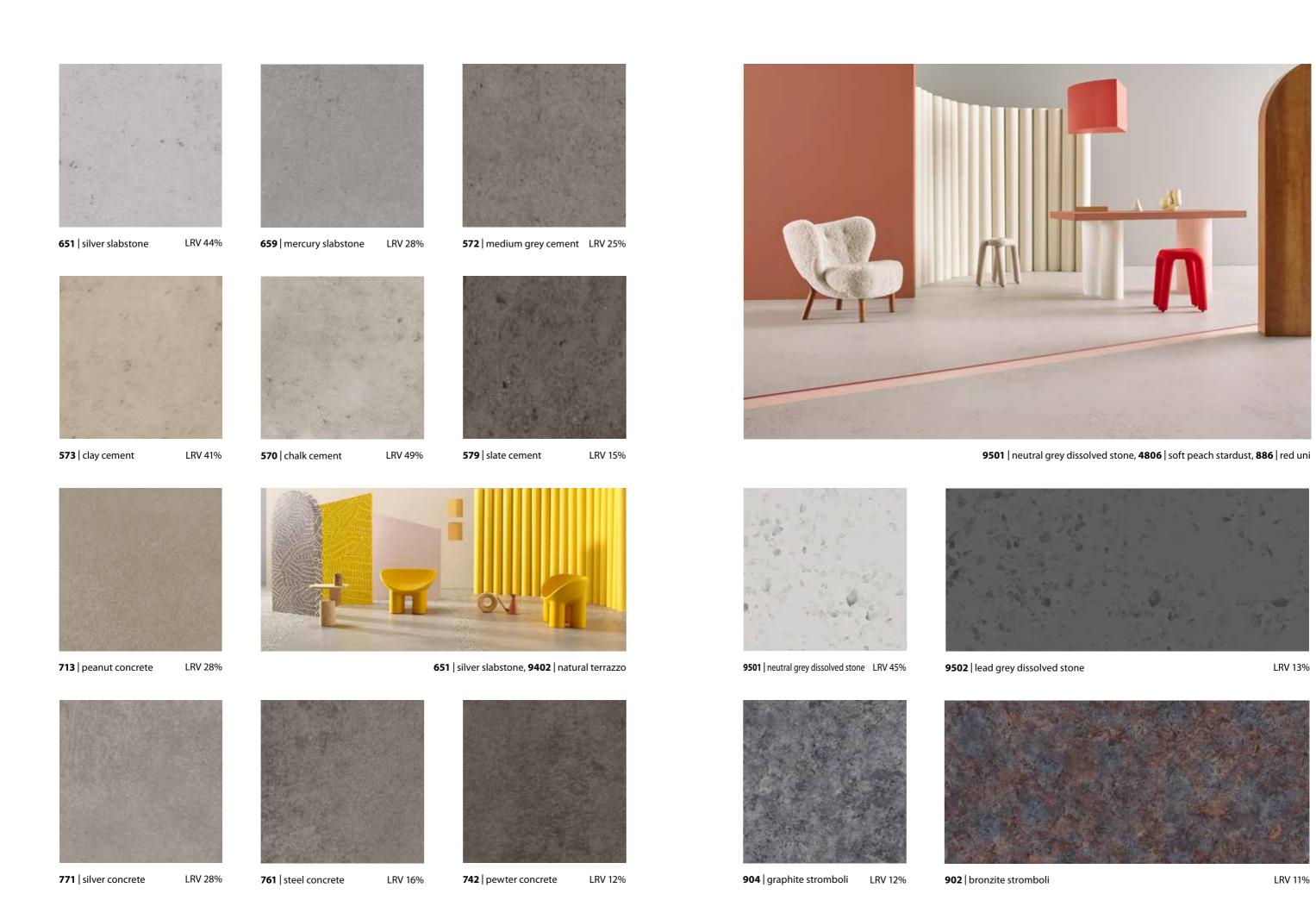
9209 | dark hybrid wood concrete



9209 | dark hybrid wood concrete

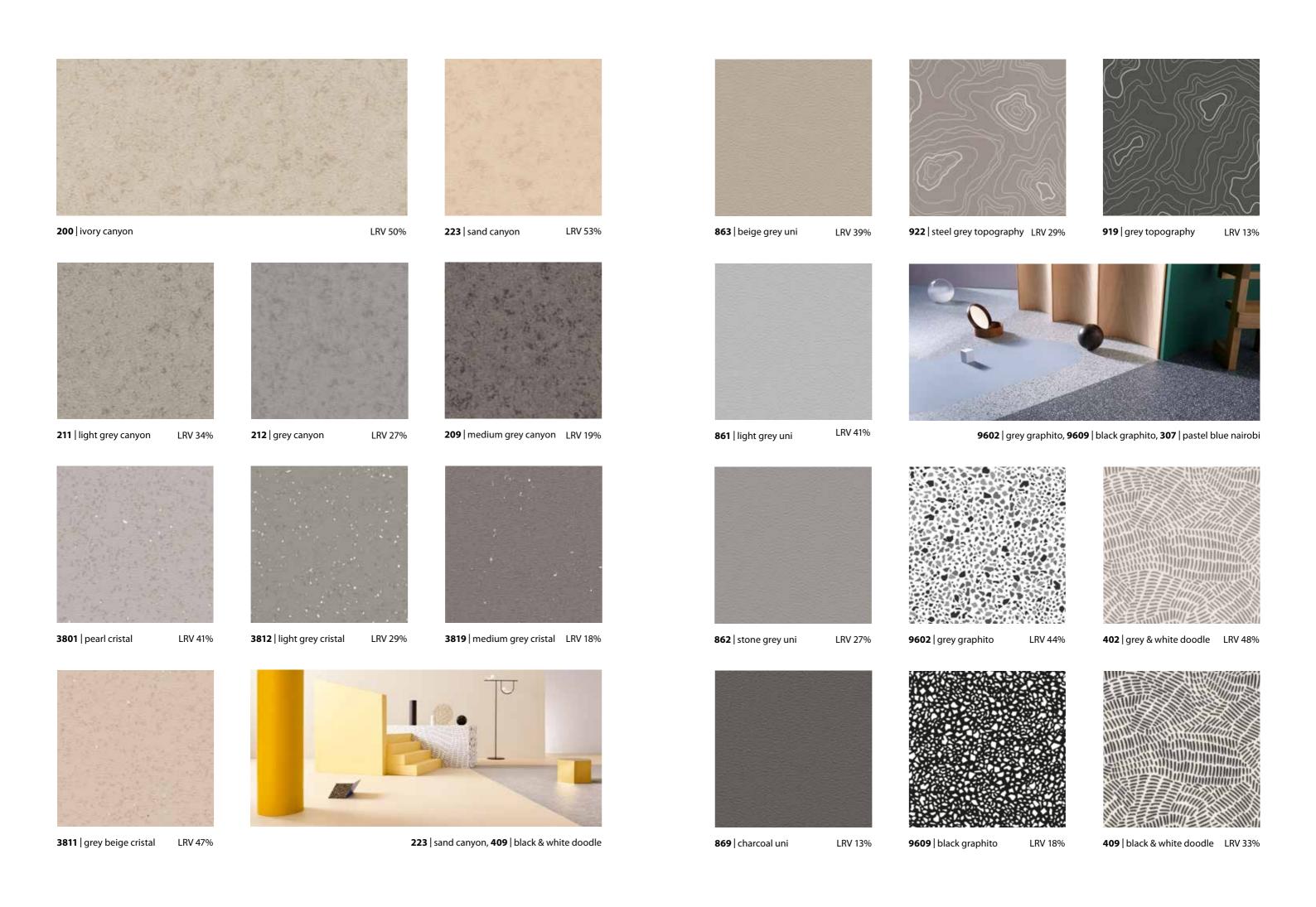
LRV 12%

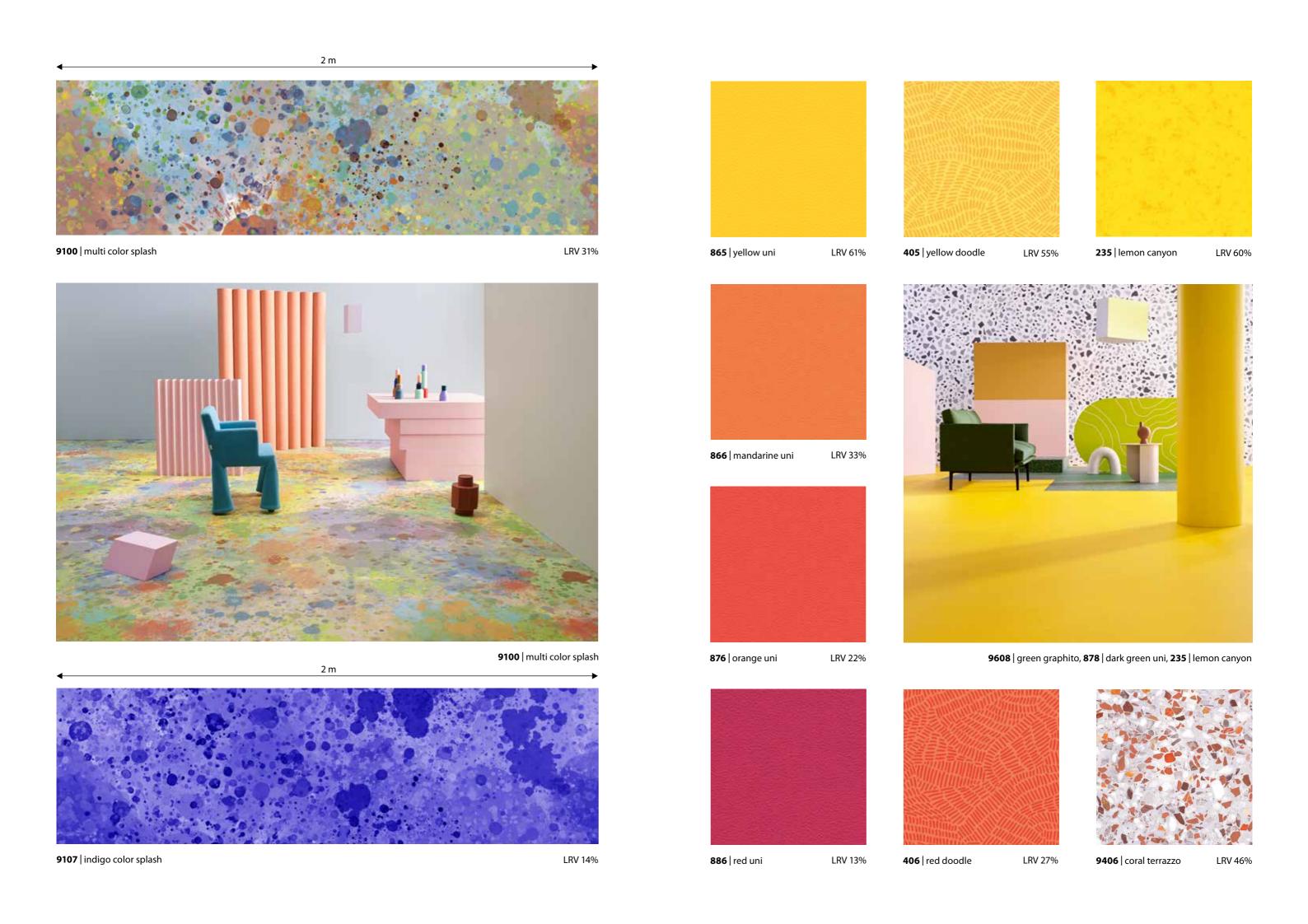


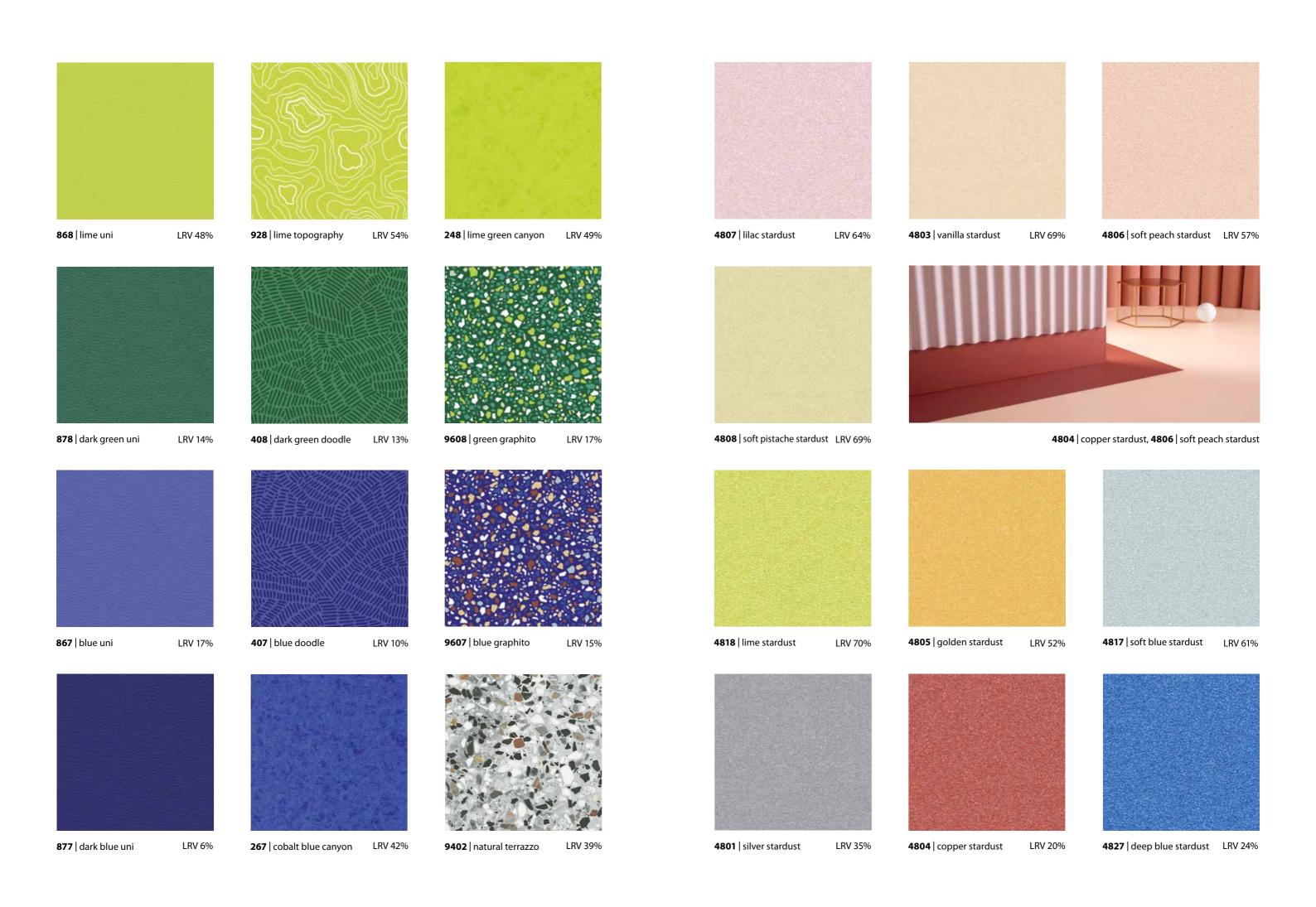


LRV 13%

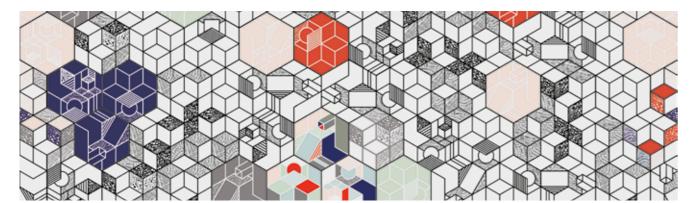
LRV 11%







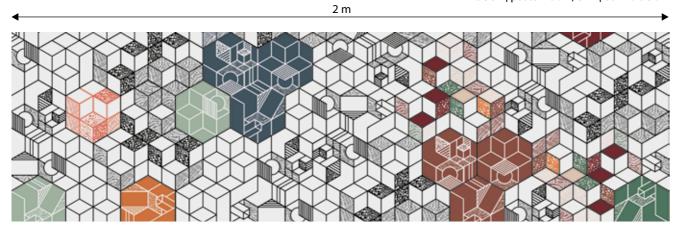




9307 | pastel kubik LRV 31%



| pastel kubik, **877** | dark blue uni



| dark kubik

