




THE FENIX COLLECTION

Inspirational materials for iconic washrooms



FENIX NTM[®],
NANOTECH MATT MATERIAL
FOR INTERIOR DESIGN.
MADE IN ITALY.

FENIX NTM®

A TIMELESS MATERIAL
FOR NEVERENDING
DESIGN STORIES.

FENIX NTM® is an innovative material created for interior design applications by Arpa Industriale.

It is suitable for both vertical and horizontal use.

The external surface of FENIX NTM involves the use of nanotechnology and it is characterized by next generation acrylic resins, hardened and fixed with Electron Beam Curing process.

With low light reflectivity, its surface is extremely opaque, anti-fingerprint and features a very pleasant soft touch.

FENIX NTM is suitable for different interior design applications: kitchen, hospitality, healthcare, transportation, bathrooms, furniture (tables, bookshelves, partitions, chairs).



OPEN YOUR MIND AND CREATE SURFACES FOR NEW THOUGHTS.

FENIX NTM® è un materiale innovativo di Arpa Industriale creato per l'interior design, adatto ad applicazioni sia verticali sia orizzontali. La parte esteriore di FENIX NTM è ottenuta con l'ausilio di nanotecnologie ed è caratterizzata da una superficie trattata con resine acriliche di nuova generazione, indurite e fissate attraverso il processo di Electron Beam Curing. Con una bassa riflessione della luce, la sua superficie è estremamente opaca, anti impronte digitali e piacevolmente soft touch. FENIX NTM è adatto alle molteplici applicazioni tipiche dell'interior design: cucine, hospitality, healthcare, trasporti, bagni, elementi di arredo (tavoli, librerie, partizioni, sedie).

FENIX NTM® est un produit innovant créé par Arpa Industriale pour des applications de design intérieur. Il est parfaitement adapté aux applications verticales et horizontales. La surface décorative de FENIX NTM est obtenue par l'utilisation de la nanotechnologie combinée à des résines acryliques de nouvelle génération, durcies par un processus de polymérisation par faisceau électronique. Avec une très faible réflectivité, sa surface est extrêmement opaque, anti-traces de doigts et offre un toucher très soyeux. FENIX NTM est recommandé pour de nombreuses applications de design intérieur telles que cuisines, hôtellerie, hôpitaux, transports, salles de bains, mobilier (tables, bibliothèques, cloisons, chaises).

FENIX NTM® ist ein bahnbrechendes Material kreiert von Arpa speziell für den Einsatz im Interiorbereich. Es ist sowohl für vertikale als auch horizontale Applikationen geeignet. Die dekorative Oberfläche wird durch eine spezielle Nanotechnologie und den Einsatz eines besonderen Herstellverfahrens – der Elektronenstrahlhärtung – veredelt. Zudem wurde eine neue Generation von Acrylharz hierfür von Arpa entwickelt, welcher in unserem Werk selbst hergestellt wird. So stellen wir durch eigene Herstellung aller Komponenten die gleichbleibend hohe Qualität von Fenix NTM sicher. Es zeichnet sich durch eine sehr geringe Lichtreflexion aus, ist dadurch extrem matt und verleiht der Oberfläche einen weichen, samtigen Touch. FENIX NTM eignet sich für die vielseitigsten Anwendungen im Innenbereich: Küche, Sanitär, Transport, Bad und Möbel (Tische, Regale, Abtrennungen, Stühle).

FENIX NTM® es un material innovador creado para aplicaciones de diseño de interior por Arpa Industriale, adecuado para aplicaciones tanto verticales como horizontales. La superficie exterior de FENIX NTM se obtiene con la aplicación de la nanotecnología y se caracteriza por el uso de resinas acrílicas que son endurecidas y fijadas a través de un proceso de Electron Beam Curing. Con una baja reflectancia de la luz, su superficie es extraordinariamente mate, antihuella digital, agradable y suave al tacto. FENIX NTM es adecuado para múltiples aplicaciones del diseño de interior: cocina, hostelería, sanidad, transportes, baños, muebles (mesas, estanterías, tabiques, sillas).



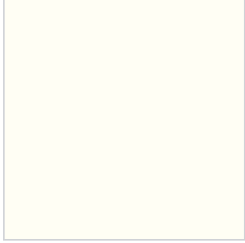


COLOURS

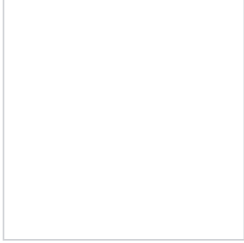
0029 Bianco Malè



0032 Bianco Kos



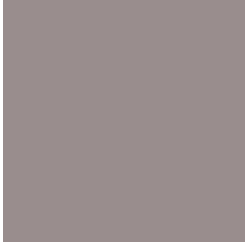
0030 Bianco Alaska



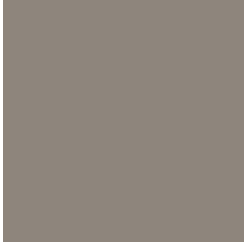
0719 Beige Luxor



0716 Rosa Colorado



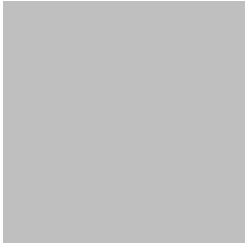
0717 Castoro Ottawa



0718 Grigio Londra



0725 Grigio Efeso

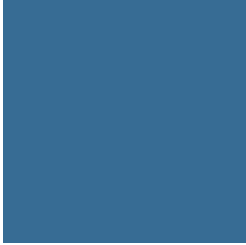


0724 Grigio Bromo

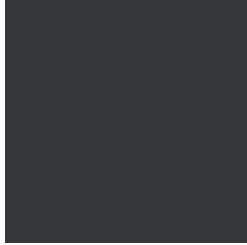


COLOURS

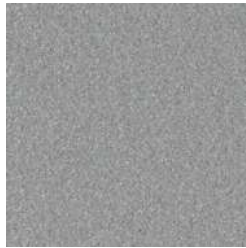
0721 Blu Delft



0720 Nero Ingo



2638 Titanio Doha



2628 Zinco Doha



2629 Bronzo Doha








2630 Piombo Doha







Code	Name	Code	Name
0029	Bianco Malè	0721	Blu Delft
0030	Bianco Alaska	0724	Grigio Bromo
0032	Bianco Kos	0725	Grigio Efeso
0716	Rosa Colorado		
0717	Castoro Ottawa	2628	Zinco Doha
0718	Grigio Londra	2629	Bronzo Doha
0719	Beige Luxor	2630	Piombo Doha
0720	Nero Ingo	2638	Titanio Doha

Thickness  mm	Decor 	Type/Core 	Size	
			 3050x1300 mm	 4200x1400 mm
0,9 mm	All FENIX NTM range	Standard	•	•
1,2 mm	All FENIX NTM range	With matched colour core	•	•
10,0 mm	All FENIX NTM range except 0029, 0030, 0032, 0720	Single sided black core	•	•
	All FENIX NTM range	Double sided black core	•	•
	0029, 0030, 0032	Double sided white core	•	•
12,0 mm	All FENIX NTM range except 0029, 0030, 0032, 0720	Single sided black core	•	•
	All FENIX NTM range	Double sided black core	•	•
	0029, 0030, 0032	Double sided white core	•	•

Customization available upon request.

Protective film included.



MATT AND SOFT TOUCH SURFACE.

Thanks to the use of last generation acrylic resins, FENIX NTM's surface is extremely closed. The irregular surface topography has as a result a very low light reflectivity (a surface specular reflectance of 1.5 at 60°) and the soft touch effect.

Grazie all'uso di resine acriliche di ultima generazione, la superficie di FENIX NTM risulta essere estremamente chiusa. La topografia irregolare della superficie ha come risultato una bassa riflessione della luce (valore di riflessione speculare: 1,5 a 60°) e l'effetto soft touch.

Grâce à l'utilisation de résines acryliques de dernière génération, la surface de FENIX NTM est extrêmement fermée. La topographie irrégulière a comme résultat une très faible réflectivité de la lumière (réflectance de la surface : 1,5 à 60°) et le toucher soyeux.

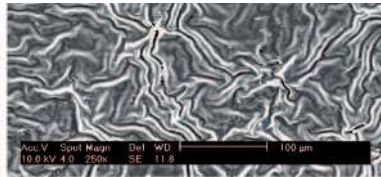
Dank einer neuen Generation Acrylharz bietet FENIX NTM eine extrem geschlossene Oberfläche und eine besonders weiche Haptik. Die unebene Oberfläche im Nanobereich sorgt zudem für eine besonders geringe Lichtreflexion (1,5 bei einem Winkel von 60 Grad).

Gracias a la utilización de resinas acrílicas de última generación, la superficie de FENIX NTM es extremadamente densa. Su topografía irregular resulta en una reflectancia mínima de la luz (reflectancia especular de superficie: 1,5 a 60°) y un efecto suave al tacto.

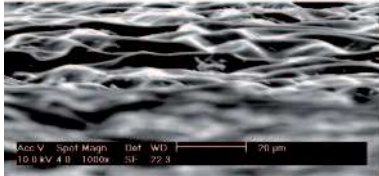
50x Tilted view



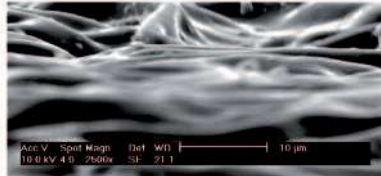
250x Tilted view



1000x Tilted view



2500x Tilted view



FEATURES

LOW LIGHT REFLECTIVITY, EXTREMELY MATT SURFACE
THERMAL HEALING OF MICROSCRATCHES
ANTI-FINGERPRINT
SOFT TOUCH
RESISTANCE TO SCRATCHES AND ABRASION
RESISTANCE TO DRY HEAT
HIGH RESISTANCE TO ACID SOLVENTS AND HOUSEHOLD REAGENTS
ENHANCED ANTI-BACTERIAL PROPERTIES



Bassa riflessione della luce, superficie estremamente opaca
Riparabilità termica dei micrograffi
Anti-impronta
Morbidezza al tatto
Resistenza ai graffi e all'abrasione
Resistenza al calore secco
Elevata resistenza a solventi acidi e ai reagenti di uso domestico
Alta attività di abbattimento della carica batterica

Geringe Lichtreflexion, extrem matte Oberfläche
Thermische Bearbeitung von Kratzern möglich
Keine Fingerabdrücke
Weicher Touch
Resistent gegen Kratzer und Abrieb
Resistent gegen trockene Hitze
Resistent gegen säurehaltige und alle haushaltsüblichen Reiniger
Verbesserte antibakterielle Eigenschaften

Faible réflectivité, surface extrêmement mate
Réparation thermique des micro-rayures
Aucune trace de doigts
Toucher soyeux
Résistance aux rayures et à l'abrasion
Résistance à la chaleur sèche
Grande résistance aux solvants et nettoyeurs ménagers
Propriétés antibactériennes renforcées

Reflectancia mínima de la luz, superficie extremadamente mate
Reparabilidad térmica de microarañazos
Anti-huella digital
Suave al tacto
Resistencia a los arañazos y a la abrasión
Resistencia al calor seco
Alta resistencia a disolventes ácidos y reactivos para uso doméstico
Propiedad anti-bacterias reforzada

Please visit arpaindustriale.com or fenixntm.com
to download the most updated release of FENIX NTM® technical data sheet



Hygienic
Igienico
Hygiène
Hygienisch
Higiénico



Resistance to impact
Resistenza all'urto
Résistance aux chocs
Schlagfest
Resistencia al impacto



Suitable for contact with food
Idoneo al contatto con gli alimenti
Agréé pour le contact alimentaire
Geeignet für den Kontakt mit Lebensmitteln
Apto para el contacto con alimentos



Lightfastness
Stabilità alla luce
Résistance à la lumière
Lichtecht
Estabilidad a la luz



Easy to clean
Facile da pulire
Facilité d'entretien
Einfach zu Reinigen
Fácil de limpiar



Excellent intensity and colour depth
Eccellente intensità e profondità del colore
Profondeur et intensité des couleurs
Exzellente Farbtiefe und dekorativer Ausdruck
Excelente intensidad y profundidad del color



Mold-resistant
Antimuffa
Résistance aux moisissures
Schimmelsicher
Antioxidante libre de mohó



Rub resistance
Resistenza allo strofinamento
Résistance au frottement
Wischfest
Resistente a la fricción regular



Antistatic
Antistatico
Antistatique
Antistatisch
Antiestático



Self-supporting (only for 10 and 12 mm)
Autoportante (solo per gli spessori 10 e 12 mm)
Autoportant (uniquement en 10 et 12 mm)
Selbsttragend (in den Stärken 10 und 12 mm)
Autoportante (únicamente en 10 y 12 mm)



Hydro-repellent
Idrorepellente
Imperméable
Wasserabweisend
Hidrófugo



Dimensional stability even at high temperature changes
Stabilità dimensionale in presenza di elevata variazione termica
Stabilité dimensionnelle même en cas de grande variation thermique
Hohe dimensionale Stabilität auch bei großen Temperaturschwankungen
Estabilidad dimensional en caso de elevada variación térmica



APPLICATIONS

KITCHEN
BATHROOM
FURNITURE
HEALTHCARE
HOSPITALITY
OFFICE
TRANSPORTATION
ELEVATORS
DOORS

Cucina
Bagno
Arredamento
Healthcare
Hospitality
Uffici
Trasporti
Ascensori
Porte

Cuisines
Salles de bain
Mobilier
Santé
Hotels et restaurants
Bureaux
Transports
Ascenseurs
Portes

Küche
Bad- und Sanitärbereich
Möbel
Bewirtung
Gesundheitswesen
Büro
Transport
Aufzüge
Türen

Cocina
Baño
Mobiliario
Sector sanitario
Hosteleria
Oficina
Transportes
Ascensores
Puertas

HONOURS AND AWARDS



Best of the Best



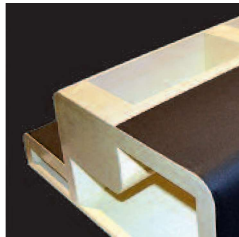
First Prize
Design Category



Selected by ADI
for ADI Design Index



Best Design Material



OVER 60 YEARS OF RESEARCH, TECHNOLOGY AND INNOVATION.

Since 1954 Arpa Industriale has been designing and manufacturing panels with very high quality HPL technology for the most diverse applications: from architecture to interior design, from healthcare to shipyards, from transport to hospitality, from retail to kitchens.

Dal 1954, Arpa progetta e produce pannelli con tecnologia HPL di alta qualità per le più svariate destinazioni d'uso: dall'architettura al design d'interni, dall'healthcare alla cantieristica navale, dal trasporto all'hospitality, dal retail al kitchen.

Depuis 1954, Arpa Industriale conçoit et fabrique des panneaux HPL haut de gamme pour les applications les plus diverses: des projets architecturaux aux agencements intérieurs, des établissements médicaux aux chantiers navals, du transport à l'hôtellerie, des boutiques aux cuisines.

Seit 1954 fertigt und entwickelt Arpa Industriale hochwertige HPL- und Vollkernplatten für die Innenanwendung: von der Küche bis zu medizinischen Bereichen, im Laden- und Messebau, im Schiffsbau und in Sanitärbereichen, im Gastro- und Hotelbereich - vielfältigste Anwendungen für Objekt und Architektur.

Desde 1954, Arpa Industriale diseña y fabrica paneles HPL con tecnología de la más alta calidad para los más diversos usos y aplicaciones: en arquitectura y diseño de interiores, para astilleros, cocinas, para los sectores sanitario, de hotelería y turismo, de transportes, de venta al por menor...

DISCLAIMER

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FENIX NTM™ is an innovative material created for interior design by Arpa Industriale. It is produced by the simultaneous application of heat (approx. 150 °C) and high specific pressure (> 7 MPa) in order to have a homogeneous non-porous high density product.
 The core structure of FENIX NTM is composed of paper impregnated with thermosetting resins. Its external surface involves the use of nanotechnology and its decor is obtained through next generation resins developed thanks to Arpa Industriale's research.
 FENIX NTM is material which stands out for specific features such as: high resistance to scratches and to dry heat, anti-fingerprint, soft touchiness, low light reflectivity, thermal healing of microscratches, enhanced anti-bacterial properties.
 FENIX NTM is suitable for different interior design applications: kitchens, hospitality, healthcare, bathrooms, furniture (tables, bookshelves, partitions, chairs, etc.).
 FENIX NTM is a registered trademark by Arpa Industriale.

		STANDARD	MULTICOLOR EVOLUTION
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PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	VALUES
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SURFACE QUALITY

Surface quality	EN 438-2.4	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
		Fibres, hair and scratches	mm/m ²	≤ 10

DIMENSIONAL TOLERANCES

Dimensional tolerances	EN 438-2.5	Thickness tolerance	mm	0.9 ± 0.10	1.2 ± 0.18
	EN 438-2.6	Length and width	mm	+ 10 / - 0	
	EN 438-2.7	Straightness of edges	mm/m	≤ 1.5	
	EN 438-2.8	Squareness	mm/m	≤ 1.5	
	EN 438-2.9	Flatness (measured on full-size sheet)	mm/m	≤ 60	≤ 100

GENERAL PROPERTIES

Resistance to surface wear	EN 438-2.10	Initial Point Wear value	Revolutions Revolutions	≥ 200 ≥ 350	
Resistance to immersion in boiling water	EN 438-2.12	Appearance	Rating	≥ 4	
Resistance to water vapour	EN 438-2.14	Appearance	Rating	≥ 4	
Resistance to dry heat (180°C/2h)	EN 438-2.16	Appearance	Rating	≥ 4	
Resistance to wet heat (100°)	EN 12121-1997	Appearance	Rating	≥ 4	
Dimensional stability at high temperatures	EN 438-2.17	Cumulative dimensional change	Longitudinal % Transversal %	≤ 0.55 ≤ 1.05	≤ 0.80 ≤ 1.40
Resistance to impact with small diameter ball	EN 438-2.20	Spring force	N	≥ 21	
Resistance to impact with large diameter ball	EN 438-2.21	Drop height	mm	≥ 800	
		Indentation diameter	mm	≤ 8	
Resistance to cracking	EN 438-2.23	Appearance	Rating	≥ 4	
Resistance to scratching	EN 438-2.25	Appearance	Rating	≥ 4	
Resistance to staining	EN 438-2.26	Appearance - Group 1 and 2	Rating	≥ 5	
		Appearance - Group 3	Rating	≥ 4	
Light fastness (Xenonarc)	EN 438-2.27	Contrast	Grey scale rating	≥ 4	
Resistance to cigarette burns	EN 438-2.30	Appearance	Rating	≥ 3	
Surface specular reflectance	ISO 2813	Surface specular reflectance	Gloss unit	indicative values: 0.2 at 20°, 1.5 at 60°, 10 at 85°	
Electrostatic property	EN 61340-4-1	Surface electrical resistance	Ω	values between 1 x 10 ¹⁰ and 1 x 10 ¹²	
Density	EN ISO 1163	Density	g/cm ³	≥ 1.35	
Resistance to microscratches	EN 10094	Resistance to micro-scratches	Method A	MSR-A5 solid black - MSR-A1 dark printing	
			Method B	MSR-B2 solid black - MSR-B1 dark printing	

FIRE PERFORMANCES

Reaction to fire	The Reaction to Fire of FENIX NTM is related to the final composite panel where the laminate of FENIX NTM is bonded to a substrate. The results may be different depending on the substrate, the glue and the bonding techniques applied. The Reaction to Fire testing of the composite panel is under the responsibility of the panel manufacturer. For its own laminates, Arpa has some facing papers available in relation to specific applications and markets. Customers may refer to the Customer Care for information.			
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OTHER PROPERTIES

Acids resistance	SEFA 6-RL-2010 method 6.1	Chemical Spot Test	passing/not passing	passing
Formaldehyde emission	EN 717-2 EN 15987	Gas analysis	mg/(m ² ·h)	0.4 - 0.4
		Formaldehyde emission rating	mg/m ³	E1
Hygiene	NSF	NSF/ANSI 28	passing/not passing	passing
Volatile Organic Chemical Emissions	Greenguard IACQ according to EPA TO-17 and ASTM D 6106 EPA TO-11A and ASTM D 5197	Individual VOCs	TLV	≤ 0.1
		Formaldehyde	ppm	≤ 0.025
		TVOC	mg/m ³	≤ 0.25
		Total Aldehydes Total Phenols	ppm / ppb mg/m ³	≤ 0.05 ≤ 0.05
Contact with food - Overall migration	EN 1186-2 EN 1186-3 EN 1186-4 EN 1186-4	3% acetic acid 24h at 40°C	mg/dm ²	< 10
		50% ethanol 24h at 40°C		< 10
		90% ethanol 24h at 40°C		< 10
Contact with food - Formaldehyde specific migration	EN 13130-23	3% acetic acid 24h at 40°C	mg/kg	< 15
Evaluation of micro-organisms action	JIS Z 2801	Antimicrobial activity after 24h at 35°C	bacterial viability	≥ 2.4
			Log reduction → reduction %	> 99.9

Note to laminates with adhesive protective film
 The protective films are designed for temporary surface protection against dirt, scratches and tool marks. They are not designed for protection against corrosion, humidity or chemicals.
 The laminates covered with the protective film shall be stored in a clean, dry place at room temperature (optimum 20°C), avoiding weathering and UV exposure.
 The protective film shall be removed from the laminate surface within 6 months from the date of delivery from Arpa Industriale.
 Arpa Industriale cannot be responsible for the misuse of the laminates covered with the protective film, nor for the consequences for non-recommended applications.

Disclaimer
 The Product Technical Sheets provide all the technical information relevant to the performance of the product as tested by Arpa Industriale or certified testing agencies. Arpa Industriale maintains the right to change and alter the product composition and production process and thereby the performance characteristics of the product at all times, as reported to the Arpa Industriale website. Customers and end-users of the product are requested to check for the latest technical information regarding the products performance on the website of Arpa Industriale before application. In any case, Arpa Industriale, in every contractual relationship, will refer only to the technical information published on its website. Arpa Industriale will not assume any liability if the end-user or customer refer to any other technical information of the products.



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Washroom is the force behind some of the most inspirational spaces for iconic projects both in the UK and internationally.

Visit our download library for the full selection of colours and materials available:
www.washroom.co.uk/toolbox/colours/