CI/SfB (4-) Nh2
October 2014

TATA STEEL

TATA

Colorcoat HPS200 Ultra®

Super durable, guaranteed performance

Unrivalled product performance

Exceptional performance

Designed to withstand even the most demanding and aggressive environments, Colorcoat HPS200 Ultra® pre-finished steel provides super durability and corrosion resistance. Whatever your type of building, from warehouses to houses, retail outlets to processing plants, Colorcoat HPS200 Ultra® demonstrates proven performance and reliability.

Typical properties

Colorcoat HPS200 Ultra®			Test standard
Nominal organic coating thickness	(µm)*	200	EN 13523-1
Specular gloss (60°):			
Non-matt colours	%	20-40	EN 13523-2
Matt colours	%	<10	EN 13523-2
Scratch resistance	(g)	>5000	EN 13523-12
Abrasion resistance (Taber, 250 rev, 1 kg)	(mg)	<12	EN 13523-16
Flexibility:			
Minimum bend radius	(T)	0T (16°C)	EN 13523-7
		1T (0°C)	EN 13523-7
Reverse impact	(J)	≥18	EN 13523-5
Adhesion (cross hatch)	(%)	100	EN 13523-6
Maximum continuous operating temperature	(°C)	60	
Corrosion resistance:			
Salt spray	(h)	1000	EN 13523-8
Humidity	(h)	1500	EN 13523-26
Corrosion resistance category		RC5	EN 10169:2010
UV resistance category		Ruv4	EN 10169:2010
Internal environment classification		CPI5	EN 10169:2010

*µm = micron

Notes

1. The figures contained in this table are typical properties and do not constitute a specification. Tested in accordance with EN 13523. For details on test methods visit **www.colorcoat-online.com**
2. For health and safety datasheets contact the Colorcoat Connection® helpline on +44 (0)1244 892434.

Super durability

Colorcoat HPS200 Ultra® has been developed to perform in demanding environments – both external and internal. It has been subjected to comprehensive natural and accelerated testing, often way beyond the required standards. Colorcoat HPS200 Ultra® is used in a wide range of industrial and commercial buildings and real-life scenarios provide further evidence of the product's super durable qualities.

Excellent test results mean that Colorcoat HPS200 Ultra® is classified as a CPI5 product as per EN 10169:2010. This is the highest classified level of corrosion protection for internal environments and means that Colorcoat HPS200 Ultra® is suitable for the most demanding internal applications such as swimming pools, sewage treatment plants, power stations, energy from waste and processing factories.

Today's super durable Colorcoat HPS200 Ultra® comes with comprehensive guarantees and offers a sustainable solution for the building envelope where longevity and durability are imperative.

Double sided option

To support the super durable qualities of Colorcoat HPS200 Ultra® it is provided with a high performance backing coat as standard however is also available double sided. This provides a robust barrier on the reverse side of the steel substrate for buildings with demanding internal and external environments such as manufacturing plants.

Unrivalled corrosion protection

Colorcoat HPS200 Ultra® uses the unique and proven Galvalloy® metallic coating by Tata Steel. Galvalloy® is made with a special mix of 95% Zinc (Zn) and 5% Aluminium (Al) that conforms to EN 10346:2009. The carefully developed proportions of Zinc and Aluminium in Galvalloy® offers a combination of increased barrier and sacrificial protection when compared with conventional Hot Dip Galv (HDG) coatings and provides unrivalled corrosion protection, even at the cut edges.

Colorcoat HPS200 Ultra® with Galvalloy® roof after 7 years.

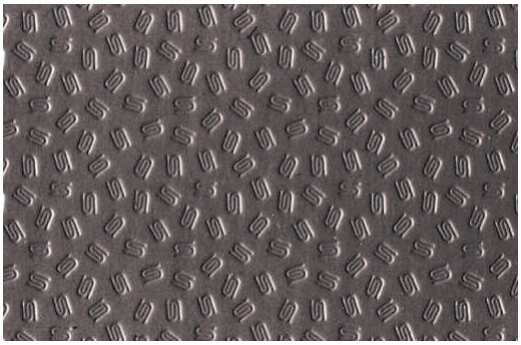
Leathergrain alternative on hot dip galvanised steel substrate roof after 7 years.

Enduring quality

Scintilla®

Unique to Colorcoat HPS200 Ultra® the Scintilla® emboss has been developed with a depth of only nominal 50 microns, which makes it less likely to trap dirt than deeper leathergrain embosses therefore making the pre-finished steel easier to clean whilst being more robust.

Unlike leathergrain patterns the emboss is subtle and does not detract from the overall appearance of the building, looking smooth and creating a modern building appearance from a distance. The Scintilla® emboss provides a unique guarantee of authenticy and an overall thicker protective top coat from Tata Steel.



Fire performance

There is currently a period of co-existence of standards and either EN standards or BS 476 can be used to demostrate compliance with Building Regulation requirements.

External fire performance for roof covering products

Colorcoat HPS200 Ultra®, when used as part of a roof cladding system can be classified as $B_{ROOF(t1)}$, $B_{ROOF(t2)}$, $B_{ROOF(t3)}$, without further testing, in accordance with Commission Decision 2005/403/EC for all material greater than or equal to 0.4mm gauge and for all colours in the product range.

Colorcoat HPS200 Ultra® has a notional designation of AA (National classification) and $B_{ROOF(t4)}$ within Approved Document B of the Building Regulations (England and Wales).

Reaction to fire

Colorcoat HPS200 Ultra® has been tested to EN 13823 and EN 11925 and can be classified in accordance with EN 13501 as C-s2, d0. This classification is valid for material ≥ 0.47mm.

Made in the UK

Colorcoat HPS200 Ultra® is exclusively from Tata Steel, and is fully traceable with certification to BES 6001 for Responsible Sourcing. From steel manufacture to processing, Colorcoat HPS200 Ultra® uses some of the most advanced, and sustainable, technologies in the UK for high quality building products with a lower carbon footprint.

Colorcoat® made in the UK

Specification

To secure the peace of mind that comes from a rigorously manufactured and world wide tested product from Tata Steel, please ensure Colorcoat® as well as the individual product name is specified: Colorcoat HPS200 Ultra® by Tata Steel with Galvalloy® metallic coating.

British Board of Agrément Certificate

The long-term performance of Colorcoat HPS200 Ultra® has been recognised within BBA certificate 91/2717 as "Colorcoat HPS200 Ultra® coating and metal treatment will protect the steel substrate against corrosion for a period in excess of 40 years in normal industrial, urban, suburban and rural environments."

BBA BRITISH BOARD OF AGRÉMENT CERTIFICATE No 91/2717

Peace of mind

The Confidex® Guarantee

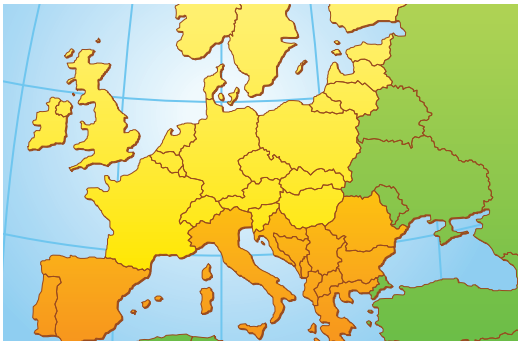
Confidex® is the product performance guarantee for Colorcoat HPS200 Ultra®, when used in an external conventional building envelope application namely roof and wall cladding using single skin, built-up or composite panel construction in industrial and commercial buildings.

Confidex® offers the longest and most comprehensive guarantee for pre-finished steel available in Europe with Colorcoat HPS200 Ultra® being guaranteed for up to 40 years. Dramatic and unrivalled improvements in colour stability and gloss retention are translated into a durable product with great longevity.

The Confidex® Guarantee is project specific and upon registration provides a contractual relationship between Tata Steel and the building owner meaning that in the case of a claim the contact with Tata Steel is direct rather than having to go through the supply chain, saving time and money. What's more this is transferable should the building owner change by simply filling in the form on the back of the guarantee certificate.

Who registers?
Usually the cladding contractor or the cladding system manufacturer, but anyone in the supply chain can apply online at: www.colorcoat-online.com/registration.

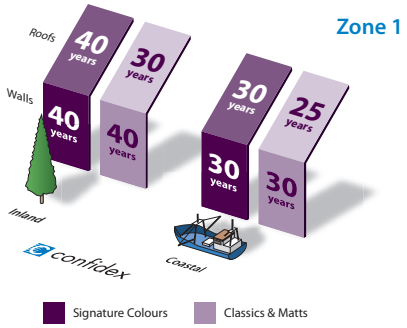
If you want to check if your building has been registered contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

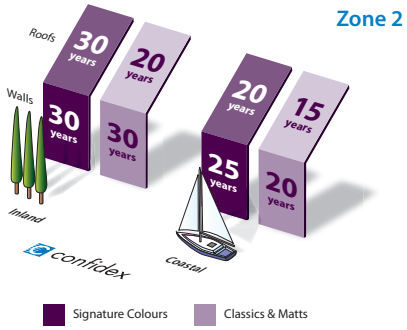


Northern Europe – Zone 1 | Southern Europe – Zone 2

For areas outside of Confidex® zones please contact Tata Steel for more information.

Confidex® zones





Notes

1. Figures under the Coastal heading are for buildings within 1km of any coast.
2. Full terms and conditions of the Confidex® Guarantee are on the online application form, available at www.colorcoat-online.com/registration
3. Confidex® must be registered within 3 months of the building completion date for the guarantee to be valid.
4. The Confidex® Guarantee periods on the diagram above are applicable to Zone 1 and Zone 2. For more information visit www.colorcoat online.com/confidexmap

Other warranties

Whilst Confidex® has always been restricted to the weathering performance of the external cladding, we have recognised the growing emergence of demanding internal environment projects, such as energy from waste plants, and may offer a non-Confidex® warranty on a case by case basis for Colorcoat HPS200 Ultra® used internally.

Application specific warranties are also available for non-standard cladding applications; i.e residential roofs, flashings and sectional roller shutter doors.

Please contact the Colorcoat Connection® helpline for guarantees associated with such applications.

Sustainability

Sustainability

At Tata Steel we are committed to making the products society needs and to making them in the most responsible way. Our commitment to sustainability also means we actively manage our impacts and contribution throughout the full life of our products - with our suppliers, within our own operations, through the supply chains we serve and by taking responsibility for recycling steel. Colorcoat HPS200 Ultra® has achieved BES 6001 responsible sourcing certificate which reinforces our commitment to sustainability.

Life Cycle Assessment

We constantly strive to ensure that the manufacturing processes and materials used to manufacture Colorcoat HPS200 Ultra® are the most sustainable available. Moreover, the enhanced robustness and durability of Colorcoat HPS200 Ultra® mean that it significantly outperforms other pre-finished steel in terms of environmental impacts over the full life cycle.

To demonstrate the environmental impacts, Tata Steel have published an Environmental Product Declaration (EPD) for each of the Colorcoat® assessed cladding systems, based on an initial Life Cycle Analysis. Please visit www.colorcoat-online.com/sustain for further details.

System environmental assessment

In the UK all roof and wall systems using pre-finished steel achieve a Green Guide A+ rating. Manufacture and processing of Colorcoat HPS200 Ultra® into building envelope products, through our approved supply chain, can meet the responsible sourcing criteria for BREEAM. Our manufacturing site has an environmental management system which has been certified to ISO 14001.

Recycling

Colorcoat HPS200 Ultra® is truly recyclable without any loss of quality, time after time. There is a well established and very efficient steel recycling infrastructure which ensures that all steel collected at end of life goes back into steel manufacture. Through this efficient recycling of steel, the environmental investment in steel-making is never wasted, making steel the most sustainable construction material.

Photovoltaic

To demonstrate Tata Steel's commitment to the environment and renewable energy offerings, Colorcoat HPS200 Ultra® now provides the comprehensive Confidex® Guarantee for the pre-finished steel that is under the photovoltaic (PV) frame modules on a roof. This provides the building owner with the confidence that installing a PV array will not have a detrimental effect on the performance of the pre-finished steel, and that the product is guaranteed to perform for the same duration of up to 40 years.

If the building owner is considering retrofitting PV in the future, specifying Colorcoat HPS200 Ultra® ensures that your roof is PV ready, future proofing your building, and providing peace of mind that installation will not have a detrimental and costly impact on the pre-finished steel. The Confidex® Guarantee allows PV modules to be installed at any point throughout the Confidex® Guarantee Period, providing it has been registered, and ensures that the full roof will still be covered for the remainder of the Confidex® Guarantee duration.

Colorcoat® services

The Colorcoat® brand is recognised as the exclusive mark of quality and metal envelope expertise and is supported by a comprehensive range of services, technical advice and guidance.

Colorcoat® Business Development Team

The team are readily available to advise you on the design, specification and construction of your metal building envelope. Call the Colorcoat Connection® helpline or visit www.colorcoat-online.com to find out who the representative is for your area.

Colorcoat Connection® helpline

This dedicated helpline offers immediate and easily accessible advice and guidance on a wide range of construction issues. Contact us on +44 (0)1244 892434.

Colorcoat® Technical Papers

We have produced a number of technical papers that can help you address key issues in building design and construction.

Colorcoat® Supply Chain Partners

Colorcoat® products are available through our market-leading supply chain partners, whose CE marked and SCI assessed systems we recommend for the very highest quality and service.

Colorcoat® Accredited Distributors

Our Colorcoat® Accredited Distributors can provide you with any colour from the Colorcoat HPS200 Ultra® range in small quantities, with a 48 hour service guaranteed.

BS & RAL reference table

	Colour	BS	RAL
Signature Colours	Alaska Grey		7000
	Albatross	18B17	240 80 05
	Anthracite		7016
	Ardenne		7022
	Black	00E53	9005
	Goosewing Grey	10A05	7038
	Hamlet		9002
	Honesty	10C31	1015
	Ice Blue		230 80 10
	Marlstone	10B15	1013
	Meadowland	12B17	100 80 20
	Merlin Grey	18B25	180 40 05
	Mole Brown		070 40 10
	Moorland Green	12B21	100 60 20
	Mushroom	10B19	080 70 10
	Olive Green	12B27	100 30 20
	Pure Grey		000 55 00
	Straw		080 70 30
	Svelte Grey	10B23	080 50 20
	White	00E55	9003
Classics	Barn Red		030 30 40
	Burano		3004
	Chili	04E56	3000
	Heritage Green		6002
	Ivy		170 20 10
	Jade		150 50 20
	Juniper Green	12B29	140 20 20
	Ocean Blue	18C39	220 30 25
	Petra	04D44	3013
	Raven		7021
	Sargasso		5003
	Solent Blue	18E53	240 40 40
	Terracotta	04C39	040 40 40
	Van Dyke Brown	08B29	8014
	Wedgewood Blue	18C37	220 50 15
Matts	Alaska Grey Matt		7000
	Anthracite Matt		7016
	Green Grey Matt		150 40 10
	Oxidised Matt		050 20 10
	Terracotta Matt	04C39	040 40 40

RAL references
4 digit numbers are RAL Classic references.
7 digit numbers are RAL Design references.
British Standard or RAL reference numbers shown in the table, represent the nearest colours and are not exact matches to Colorcoat HPS200 Ultra®. These colours do not have equivalent BS/RAL references.

Colorcoat HPS200 Ultra®

Colorcoat HPS200 Ultra® pre-finished steel provides exceptional performance and corrosion resistance for building envelope applications. Guaranteed for up to 40 years it is backed up with even more extreme testing and real world global data to demonstrate the best combination of excellent colour stability, gloss retention and outstanding durability.

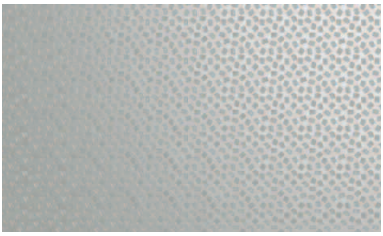
To make the colour selection process easier the colour palette is grouped as follows: Signature, Classic and further extended Matt colours.

Product features and benefits

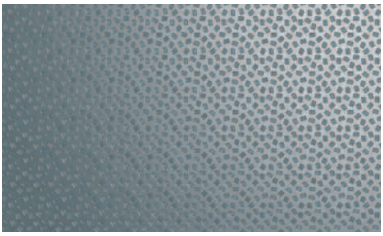
- Optimised Galvalloy® metallic coating for exceptional corrosion resistance and cut edge protection.
- Surpasses requirements of RUV4 and RC5 as per EN 10169:2010 proving excellent colour and gloss retention and corrosion resistance.
- Scintilla® embossed as a mark of authenticity from Tata Steel.
- Made in the UK for a lower carbon footprint and certified to BES 6001 Responsible Sourcing standard.
- Confidex® Guarantee for up to 40 years for the weatherside of industrial and commercial buildings with no inspection or maintenance to maintain its validity.
- Exceeds requirements of CPI5 as per EN 10169:2010 demonstrating excellent barrier properties when used internally.
- Can be used under Photovoltaic (PV) frame modules with no reduction in guarantee length ensuring all parts of the roof are covered for the same duration of the Confidex® Guarantee.
- Standard sizes are available on short production lead times.
- BBA certified for durability in excess of 40 years.
- Fully recyclable.

Signature colours

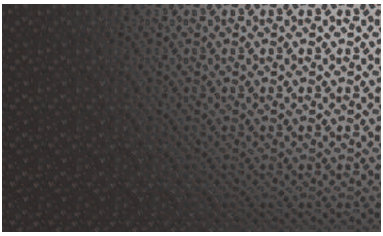
White (RAL 9003)



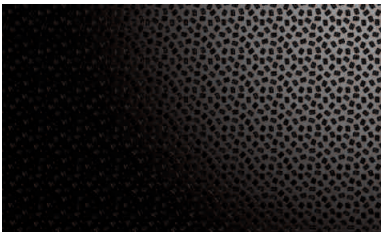
Goosewing Grey (RAL 7038)



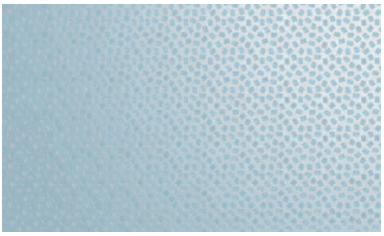
Alaska Grey (RAL 7000)



Anthracite (RAL 7016)

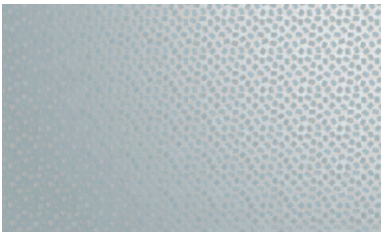


Black (RAL 9005)



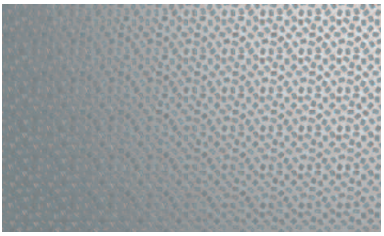
Ice Blue (RAL 230 80 10)

Marlstone (RAL 1013)

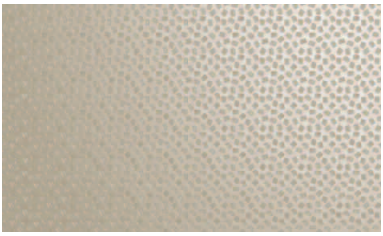


Albatross (RAL 240 80 05)

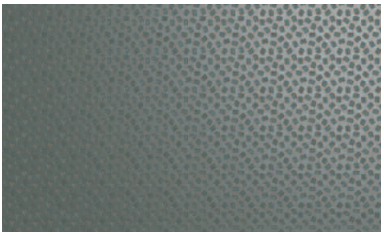
Honesty (RAL 1015)



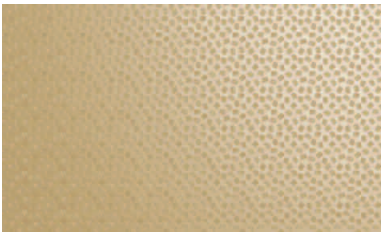
Pure Grey (RAL 000 55 00)



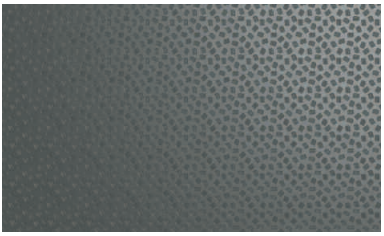
Mushroom (RAL 080 70 10)



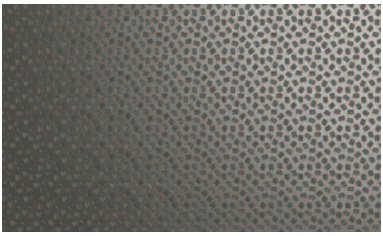
Merlin Grey (RAL 180 40 05)



Straw (RAL 080 70 30)



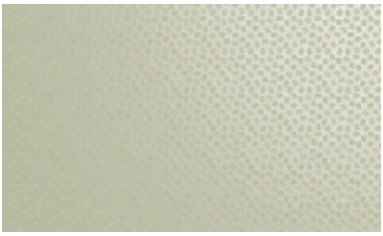
Ardenne (RAL 7022)



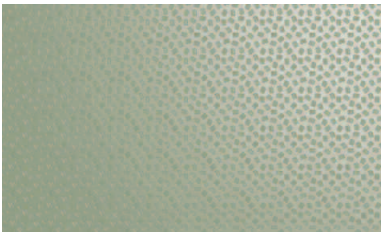
Mole Brown (RAL 070 40 10)

Classics

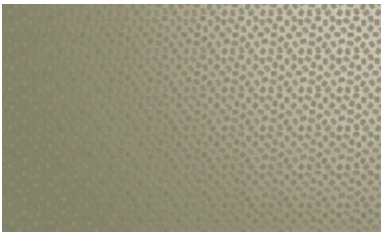
Hamlet (RAL 9002)



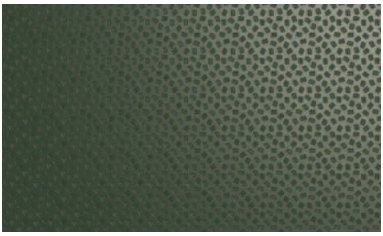
Meadowland (RAL 100 80 20)



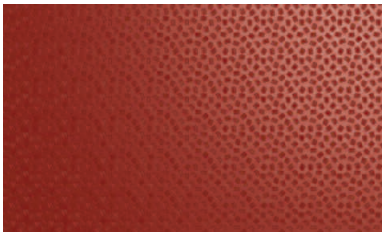
Moorland Green (RAL 100 60 20)



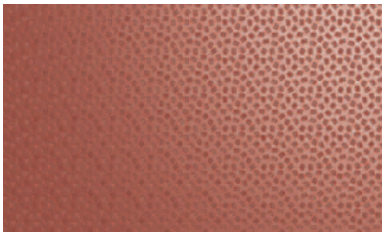
Svelte Grey (RAL 080 50 20)



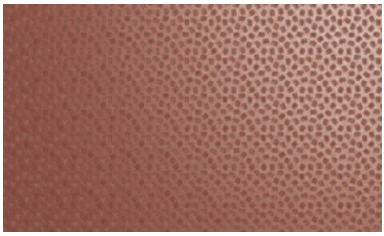
Olive Green (RAL 100 30 20)



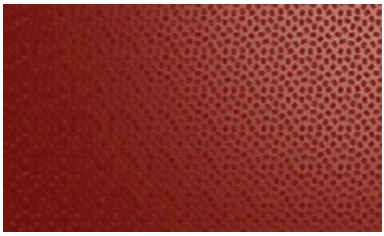
Chili (RAL 3000)



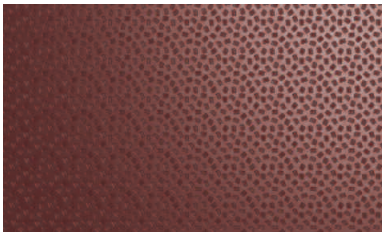
Petra (RAL 3013)



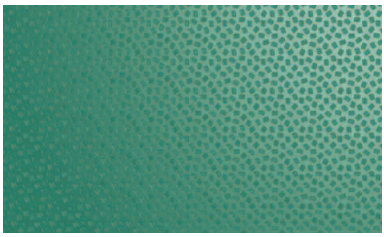
Terracotta (RAL 040 40 40)



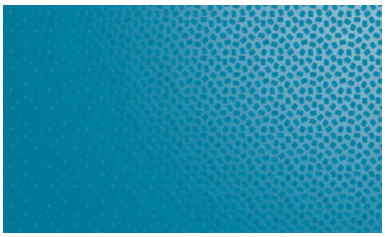
Barn Red (RAL 030 30 40)



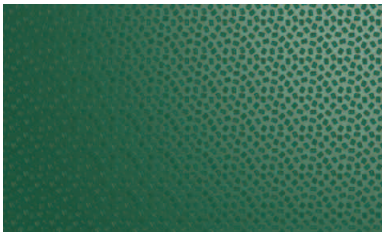
Burano (RAL 3004)



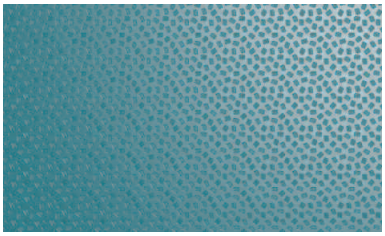
Jade (RAL 150 50 20)



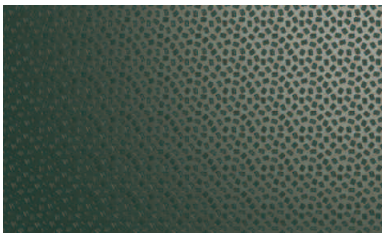
Solent Blue (RAL 240 40 40)



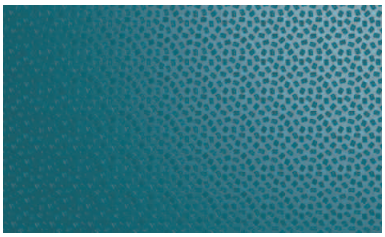
Heritage Green (RAL 6002)



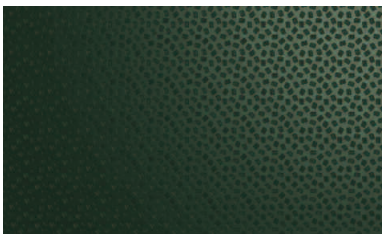
Wedgewood Blue (RAL 220 50 15)



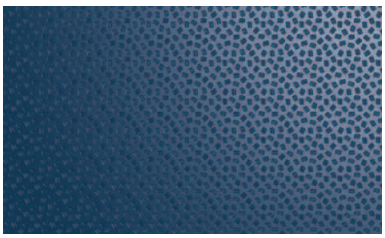
Juniper Green (RAL 140 20 20)



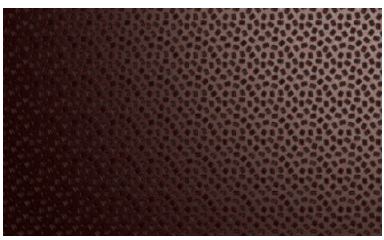
Ocean Blue (RAL 220 30 25)



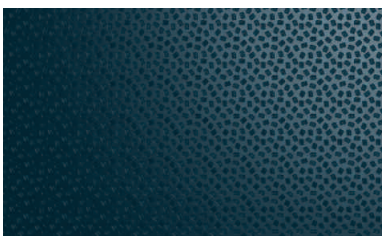
Ivy (RAL 170 20 10)



Sargasso (RAL 5003)

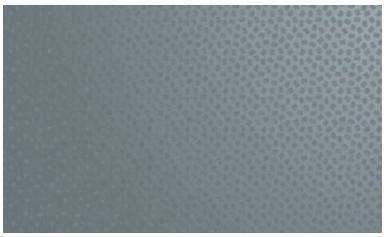


Van Dyke Brown (RAL 8014)



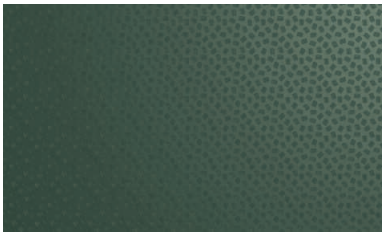
Raven (RAL 7021)

Matts



Alaska Grey (RAL 7000)

Anthracite (RAL 7016)



Green Grey (RAL 150 40 10)

Oxidised (RAL 050 20 10)

Terracotta (RAL 040 40 40)

Colour reassurance

Colour availability

All the colours on the colour card are now available on short production lead times, and from our Colorcoat® Accredited Distributors in standard sizes. To check the quickest colour availability for your project contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

Repertoire®

As an additional service, whether you want your building to stand out, or blend with the surroundings, we can create a unique identity for your building. Through our Repertoire® Colour Consultancy service we can match almost any solid colour for walls or roofs of your building, with a minimum order quantity of 2500m^2, we can work from either physical swatches or reference standards.

Metal hand samples

Metal hand samples are available for all colours. For a truer representation of colour and effect, please obtain metal hand samples from the Colorcoat Connection® helpline or online at www.colorcoat-online.com/samples

Colour consistency

If tonal consistency is critical, all cladding for a single elevation should come from the same production batch.

Matching components

If accessories made from other materials are to be colour-matched to the roof or wall cladding, the best reference is the actual profiles or panels delivered to site, or material from the same batch.

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