

**TATA STEEL**



**Colorcoat® products for agricultural buildings**  
Metal building envelopes



# COLORCOAT® PRE-FINISHED STEEL

The Colorcoat® range provides high quality, cost effective pre-finished steel for long lasting agricultural buildings. Colorcoat® products manufactured in the UK are certified to BES 6001 Responsible Sourcing standard, the first pre-finished steel to achieve this, reinforcing our commitment to sustainability. All Colorcoat® products are backed by nearly 50 years of innovation, extensive product testing and manufacturing excellence.

Colorcoat® pre-finished steel products are light and easy to fix, resistant to damage and are available in a variety of protective solutions to ensure a long building life. Easy to construct, strong and low maintenance, pre-finished steel is flexible in design to allow for extensions, making it an ideal material for agricultural building envelopes.

Colorcoat® products offer agricultural building manufacturers a range of cost-effective choices that meet modern day demands as well as future requirements. They range from those suitable for general storage to those for more demanding environments such as poultry housing.

At the end of the building's life, profiles can be refurbished, reused or fully recycled in line with environmental legislation.



# Ideal products for agricultural buildings

## Colorfarm® 15

Colorfarm® 15 provides good corrosion resistance on both the exterior and interior of the building, and has been developed as an effective cladding material for farm buildings with humid internal conditions. With a standard galvanised substrate it is guaranteed to give 15 years functional performance, providing buildings are well designed and ventilated. It is available single or double sided.

Double sided Colorfarm® 15 should be used for single skin buildings with humid internal conditions. Single sided can be used for the internal liner sheets of insulated buildings, using built-up or composite (sandwich) panel systems. The backing coat should be installed facing the insulation. Here the exposed side of the internal cladding is protected by the high build Colorfarm® 15 paint system, whilst the unexposed side is supplied with our high performance backing coat.

Colorfarm® 15 provides good levels of resistance against many chemicals found in internal agricultural environments, and with appropriate maintenance its overall life will be considerably extended.

## Key attributes

- 35µm coating, double or single sided, for good chemical resistance.
- Supplied with a galvanised substrate produced to EN 10346:2009.
- Available in 8 colours, specifically developed to harmonise with the rural environment.
- 15 year internal functional performance guarantee.
- Certified to EN 10169:2010 CPI5 resistance to humidity.

Colorfarm® 15 has been designed specifically to meet the demands of agricultural buildings including a high resistance to ammonia and fertilizers, and is guaranteed to give 15 years functional performance.

It suits any farming purpose, including livestock housing and crop storage and has been tested in contact with a number of chemicals commonly found in agricultural environments. During the tests Colorfarm® 15 was exposed to vapour, liquid, or paste, depending on the chemical being tested.

Recent testing has been undertaken which confirms Colorfarm® 15 achieves CPI5, the best internal classification according to EN 10169:2010. Long term corrosion testing for Colorfarm® 15 shows the excellent barrier properties of Colorfarm® 15 compared to PVDF and typical polyester.



## Colorfarm® 15 colour range

Colorfarm® 15 is available in a range of 8 colours chosen to simulate those of traditional building materials or create a bright interior, when using double-sided Colorfarm® 15.



1. Chalk White	RAL 9002	2. Goosewing Grey	BS 10A05
3. Reseda Green	RAL 6011	4. Juniper Green	BS 12B29
5. Light Ivory	RAL 1015	6. Slate Grey	RAL 220 30 05
7. Slate Blue	RAL 5008	8. Millstone Brown	BS 08B29

BS or RAL reference numbers shown represent the nearest colours and are not exact matches. To gain a true colour representation a Colorfarm® 15 metal hand sample should be used.

The printed colours shown for Colorfarm® 15 are for guidance only. For true representation of colour and effect, please obtain product samples from the Colorcoat Connection® helpline.

**Note:** For double sided option Chalk White is obligatory for the reverse side.

### Colorcoat HPS200 Ultra®

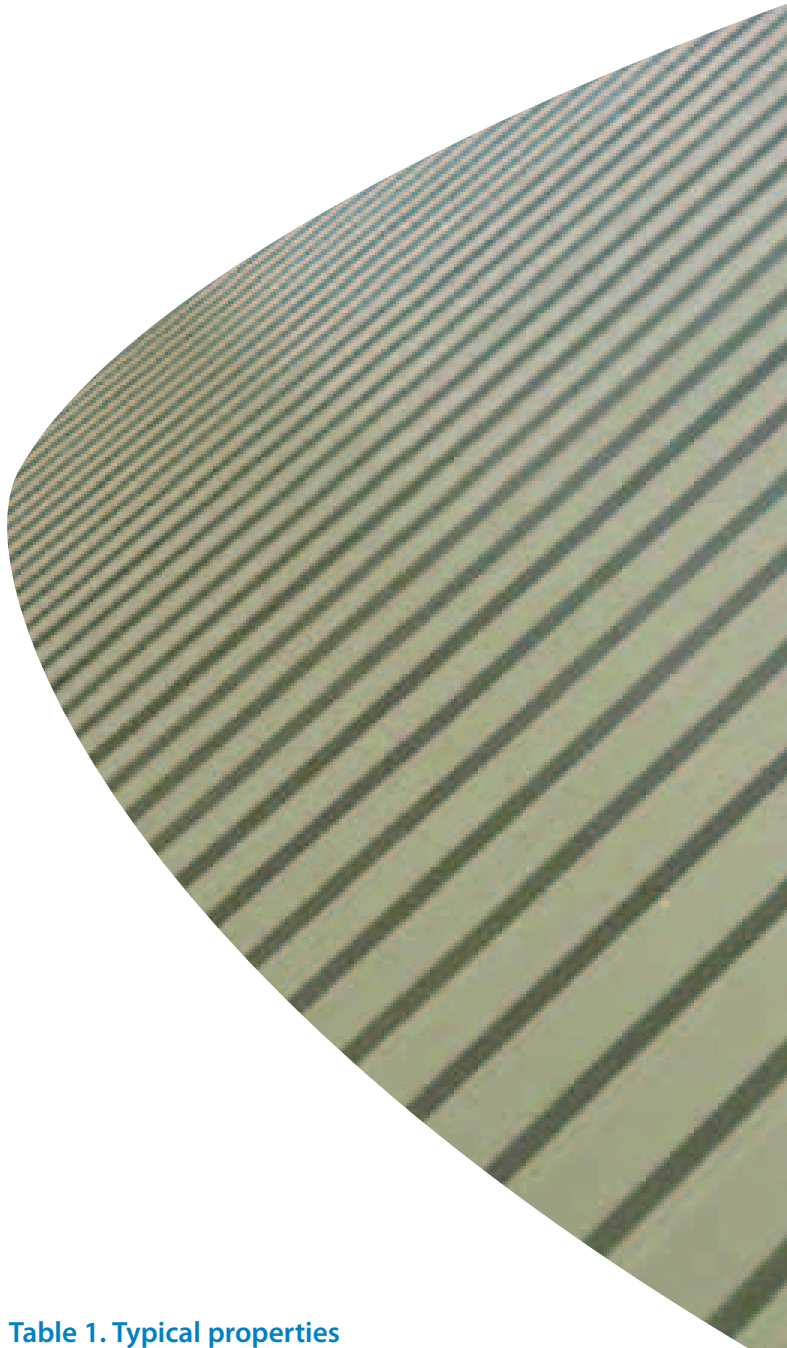
For farm buildings that are built to stand the test of time Colorcoat HPS200 Ultra® is the ideal choice. Certified to EN 10169:2010 CPI5 resistance to humidity, it is based upon a revolutionary coating system, providing outstanding colour and gloss retention.

Colorcoat HPS200 Ultra® is a 200µm durable, abrasion-resistant topcoat with the standard range including 40 colours. These include natural colours and tonal shades that can help your farm buildings blend with their environment.

We recommend the use of double sided Colorcoat HPS200 Ultra® for single skin farm buildings to provide increased abrasion resistance and for humid environments. Colorcoat HPS200 Ultra® is used in all construction sectors due to its excellent corrosion protection in acidic, alkaline and salty environments, combined with its high robustness and excellent UV resistance. It meets the requirements of RuV4 and RC5 as per EN 10169:2010 proving outstanding colour retention and corrosion resistance. When ammonia concentrates are high e.g. inside livestock stables, we would recommend Colorfarm® 15 for internal applications.

Colorcoat HPS200 Ultra® comes with the Confidex® Guarantee for up to 40 years with no maintenance or inspections required to maintain its validity for the external side of buildings.

For more information refer to Colorcoat HPS200 Ultra® colourcard.



**Table 1. Typical properties**

		Colorfarm® 15	Colorcoat HPS200 Ultra®	Test standard
Total dry film thickness	µm	35	200	EN 13523 - 1
Gloss (60°)	%	30 - 40	10 - 40	EN 13523 - 2
Scratch resistance	g	> 3000	> 3500	EN 13523 - 12
Abrasion resistance: (Taber, 250 rev., 1 kg)	mg	< 15	< 12	EN 13523 - 16
Flexibility:				
Reverse impact	J	16	18	EN 13523 - 15
Min. bend radius	T	2T @ 16°C	0T @ 16°C	EN 13523 - 7
Adhesion (cross hatch)	%	100% Pass	100% Pass	EN 13523 - 6
Corrosion resistance:				
Salt spray	hours	1000	1000	EN 13523 - 8
Humidity	hours	1000	1000	EN 13523 - 25
Maximum continuous operating temperature		100°C	60°C	Tata Steel
Internal classification resistance to humidity		CPI5	CPI5	EN 10169:2010

**General notes**

- The figures contained in this table are typical properties and do not constitute a specification. These figures relate to the topcoat and solid colours. For details on test methods see [www.colorcoat-online.com](http://www.colorcoat-online.com)
- If an exact match between components is essential, this is best achieved by matching to the actual cladding delivered to site.

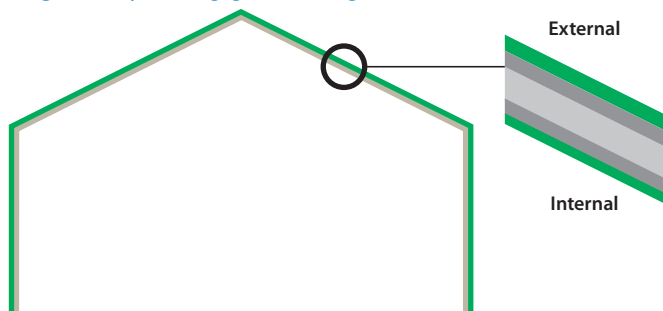
**Table 2. Recommended Colorcoat® product by building use**

Building type	Uninsulated single skin	Insulated composite panels/ built-up system
High levels of ammonia, high humidity e.g. livestock and poultry housing.	Double sided Colorfarm® 15	<b>External:</b> Colorcoat HPS200 Ultra® <b>Internal:</b> Colorfarm® 15
Low levels of ammonia, temperature controlled, high humidity e.g. vegetable stores.	Double sided Colorfarm® 15 or Double sided Colorcoat HPS200 Ultra®	<b>External:</b> Colorcoat HPS200 Ultra® <b>Internal:</b> Colorfarm® 15
Low levels of ammonia, controlled low humidity, cool environments e.g. crop storage with no direct contact.	Double sided Colorfarm® 15 or Double sided Colorcoat HPS200 Ultra®	<b>External:</b> Colorcoat HPS200 Ultra® <b>Internal:</b> Colorfarm® 15
Relatively low pollutants, low humidity, e.g. machinery stores, general storage.	Double sided Colorfarm® 15 or Colorcoat HPS200 Ultra® (Single sided for use externally with standard backer for internal use or double sided available)	<b>External:</b> Colorcoat HPS200 Ultra® <b>Internal:</b> Colorfarm® 15 Colorcoat® PE 15

**Notes**

1. Colorfarm® is the only Colorcoat® product available that provides a standard guarantee for the interior of the building.
2. External product selection depends on guarantee duration requirement.
3. Single sided products are not recommended for canopies.

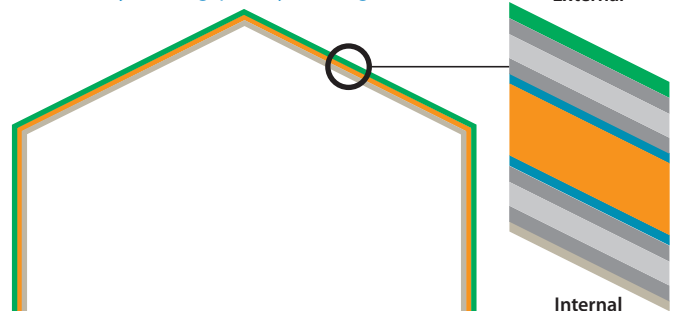
**Single skin system e.g. grain and vegetable stores**



**Key**

- Steel substrate
- Metallic coating
- Double sided Colorfarm® 15 or Double sided Colorcoat HPS200 Ultra®

**Insulated system e.g. poultry housing**



**Key**

- Steel substrate
- Metallic coating
- Colorcoat HPS200 Ultra®
- Colorfarm® 15
- Standard backing coat
- Insulation

**Table 3. Exposure of Colorfarm® 15 to common chemicals**

Test reagent	Excellent resistance	Performance Good resistance	Limited resistance
Fertiliser 10% Phosphate	•		
Fertiliser Amn. Phosphate	•		
Fertiliser NPK 25:5:5	•		
Fertiliser NPK 5:24:15	•		
Antiseptic drench	•		
Wood preservative	•		
Weed killer	•		
Hydrochloric Acid (10%)			•
Sulphuric Acid (10%)			•
Phosphoric acid (10%)			•
Acetic acid (10%)			•
Butyric Acid (10%)			•
Lactic acid (10%)		•	
Sodium Hydroxide pellets			•
Ammonia (High concentration 75%)		•	
Sodium Hypochlorite		•	
Ammonium Nitrate			•
Ammonium Phosphate	•		
Sodium Carbonate	•		
Sodium Chlorate	•		
Sodium Nitrate	•		
Formalin (40%)	•		
Urea	•		
Water	•		
Carbon Dioxide	•		

# www.colorcoat-online.com

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