

3M™ Scotchkote™
External Wall Protection Systems



Protecting the building envelope

3M

About 3M

3M – Practical and ingenious solutions that help customers succeed

3M is a \$24.5 billion diversified technology company which, since 1902, has been creating innovative products that help make our world a healthier, safer and more productive one. Well known household 3M brands include Scotch[®], Post-it[®], Scotchgard[™], Thinsulate[™] and Scotch-Brite[®].

3M employs some 75,000 people worldwide, producing thousands of innovative products for customers in dozens of diverse markets in some 200 countries. Its 50+ technology platforms touch nearly every aspect of modern life.

The UK and Ireland is home to one of the largest 3M subsidiaries outside the USA, employing 3,500 people across 16 locations, including 12 manufacturing sites. Products manufactured in the UK include coated abrasives, occupational health and environmental safety equipment, adhesive tapes, industrial microbiology products, drug delivery systems, high-performance coatings, secure documents and passport scanners.

3M[™] Scotchkote[™] is the brand for our range of high performance external wall protection systems. With a minimum 10 year design life, these durable and versatile systems are suitable for most types of external wall substrates including cladding, render, brick and stone. Included in the range are high performance anti-graffiti systems available in clear and selected colour options. Within this Scotchkote product range there are also systems for the anti-carbonation of internal tunnels and underpasses.

3M[™] Scotchkote[™] Liquid Coatings are manufactured to ISO 9000 Quality Management Systems and ISO 14000 Environmental Management Systems.

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3M™ Scotchkote™ External Wall Protection Systems

While rain, wind, snow and fluctuating temperatures are the main causes of damage to external building surfaces, increased industrialisation has added more aggressive pollutants to the environment, accelerating the damage to the building envelope. We have more road traffic, more freight transport and more people driving than ever before.

3M™ Scotchkote™ External Wall Protection Systems provide solutions to combat the continual attack on our buildings and structures from the weather, the environment and chemical contamination.

We provide cost effective solutions to the long term problems of damaged and deteriorating wall areas from our wide range of construction coatings to suit every individual project and budget.

Feature & Benefits

- 10 years Life to First Maintenance
- Micro porous systems – Allows the building to breathe
- Clear non-silicone systems – Do not affect the natural appearance of the structure
- Excellent resistance to environmental pollutants
- UV resistant
- Non chalking
- Multi substrate compatibility – Systems to suit most types of construction materials
- Good anti-carbonation properties
- Excellent Anti-Graffiti properties
- Fire rated systems



Suitable for most types of structure

- Tunnels
- Underpasses
- Warehouses
- Social Housing
- Leisure Buildings
- Hospitals
- Schools & Colleges
- Industrial & Business Parks
- Retail Premises
- Commercial Buildings
- Car Parks

Plastic Coated Sheet Protection

Plastic coated metal sheeting is now one of the most common forms of external cladding on industrial, commercial and leisure buildings.

In general, the plastic coatings can be categorised into three types:-

- 1 Plastisol (organisol) is a form of PVC and is usually recognised by a textured (crocodile skin like) surface which, when new, is approximately 1mm thick.
- 2 PVF2 plastic is based on polyvinyl fluoride and is usually a smooth or regular textured surface with a much lower film build than plastisol.
- 3 Polyester powder coating which has a perfectly smooth finish.

All three surfaces offer extended durability and usually the prime reason for coating such surfaces is where refurbishment, upgrade and colour change is the requirement. However, over an extended period of time, all these surfaces become thinner and are subject to micro-checking leading eventually to failure, de-bonding and under edge corrosion issues.

The condition of aged/weathered plastic coated metal sheeting does vary depending on its exposure to sunlight. Surfaces exposed to the most sunlight (south facing in the northern hemisphere and north facing in the southern hemisphere) will deteriorate more quickly than in sheltered areas.

The first stage of ageing is loss of gloss and chalking. As this process continues, fine cracking (micro-checking) develops and eventually complete loss of adhesion and delamination occurs. Polyester powder and PVF2 plastic surfaces do not normally degrade with age and are coated, in the main, for cosmetic reasons and to combat colour fade.

Once the system begins to fail, the sheet will rapidly corrode. 3M™ Scotchkote™ Cladding Refurbishment Systems will protect the sheets from corrosion and delamination and will prevent total loss resulting in a costly re-cladding project.



Before



Before



After



After

Feature & Benefits

- 10 years Life to First Maintenance
- Choice of systems including water based
- Impact & scratch resistant
- UV stable – Will not embrittle in sunlight
- Rapid application by spray available
- Good atmospheric chemical resistance
- Abrasion resistant
- Excellent colour retention

CLADDING
OPTION 1

3M™ Scotchkote™ Urethane Coating PU 846

3M™ Scotchkote™ Urethane Coating PU 846, a moisture triggered polyurethane product providing optimum, long term performance on all types of plastic coated metal sheets. The elasticity of this material allows for the natural movement and flexing of the building due to environmental conditions.

Feature & Benefits

- 10 Year Life to First Maintenance
- Usually a single coat application
- Primer not normally required
- UV Stable – Will not chalk
- Single pack formulation



Before



Before



After



After

HIGH
GLOSS
FINISH

Properties	Urethane Coating PU 846
Mixing Ratio	Supplied ready to use
Colours	Selected BS 4800 & RAL colours (minimum batch order quantities may apply)
Pack Sizes	20 litre
Solids Content	60%
V.O.C. (as supplied)	310 - 350 gm/litre (depending on colour)
Drying & Cure Times at 20°C (68°F)	
Usable Life	N/A
Touch Dry	4 hours
Rainfall Resistant	4 hours
Minimum Overcoating	16 hours
Maximum Overcoating	N/A
Full Cure	7 days

At lower temperatures the drying times and minimum overcoating times will be extended

Performance Data ***	
Water Vapour Permeability ASTM D1653	2.87 X 10 ⁻⁴ perm.cm
Tensile Strength ASTM D638	20.5 Mpa (3000psi)
Elongation ASTM D412	200%
Tear Strength ASTM D624	70 N/mm (400 pli)
Scratch Resistance BS 3900 Part E2	No Failure 2.5 kg (5.5 lbs) load
Impact Resistance ASTM D2794	13.55 Joules (120 inch.lbs)
Abrasion Resistance ASTM D4060	130 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
Humidity Resistance BS 3900 F2	Unaffected after 1,000 hours exposure
Salt Fog Resistance ASTM B117	Unaffected after 1,000 hours exposure
Pencil Hardness ASTM D3363	HB
UV Resistance ASTM G53 (QUV-B)	1,000 hours QUV-B No loss of gloss No colour change
Scrub Resistance ASTM B2486	> 5,000 cycles
Corus 2mm Cross-Scribe / Erichson Draw Test on Corus Colourcoat® HPS 200® plastisol coated sheet	Excellent Adhesion

*** When applied @ 75 microns dft

CLADDING
OPTION 2

3M™ Scotchkote™ Encapsulation Coating Polynox 136

3M™ Scotchkote™ Encapsulation Coating Polynox 136 is a water based, anti-corrosive acrylic coating, specifically developed to provide long term protection and the encapsulation of previously painted surfaces including plastic coated metal sheets. Highly resistant to traffic salt spray this material is ideal for industrial, coastal and city environments.

Feature & Benefits

- 10 Year Life to First Maintenance
- Nil V.O.C.
- High build in a single coat application
- Rapid drying
- Indefinite overcoating window

WATER BASED



Before



Before



After



After

LOW
GLOSS
FINISH

LOW
TEMPERATURE
FLEXIBILITY

SHOWER
PROOF IN
30 MINUTES

Properties	Encapsulation Coating Polynox 136
Mixing Ratio	Supplied ready to use
Colours	Selected BS 4800 & RAL colours (minimum batch order quantities may apply)
Pack Sizes	20 litre
Solids Content	60% by Volume
V.O.C. (as supplied)	Nil
Drying & Cure Times at 20°C (68°F)	
Usable Life	N/A
Touch Dry	1 hour
Rainfall Resistant	1 hour
Minimum Overcoating	1 hour
Maximum Overcoating	N/A
Full Cure	7 days
At lower temperatures the drying times and minimum overcoating times will be extended	
Performance Data ***	
Water Vapour Permeability ASTM E96	20 gm.mm/m ² /24 hours @ 350 microns
Tensile Strength ASTM D412	2.9N/mm ² @ 350 microns
Tensile Elongation ASTM D412	250% @ 350 microns
Salt Spray Resistance (at 350 microns on grit blasted steel) ASTM B117	Unaffected 1,000 hours No blistering No corrosion at scribe No loss of adhesion
Cold Weather Tensile Elongation ASTM D412	15°C (60°F) - 250% 10°C (50°F) - 300% 5°C (40°F) - 350% 0°C (32°F) - 360% -7°C (20°F) - 330% -12°C (10°F) - 300% -18°C (0°F) - 160%
Impact Resistance ASTM D2444	120 ins.lbs @ 350 microns
Cold Weather Flexibility ASTM D522	Pass 0.5 inch mandrel @ -25°C (-15°F)
Abrasion Resistance ASTM D4060	15 gm weight loss per 1,000 cycles - 500 gm load - CS17 wheel
Accelerated Weathering ASTM 4798	No cracking or micro checking after 1,000 hours exposure

*** When applied @ 350 microns dft

3M™ Scotchkote™ Urethane Coating UV 840

3M™ Scotchkote™ Urethane Coating UV 840 is a two component solvent based polyurethane system which provides good long term performance on plastic coated metal sheeting coupled with excellent anti-graffiti properties. Being a polyurethane, the cured system remains extremely flexible with long term chemical and anti-carbonation resistance.

Feature & Benefits

- 10 Year Life to First Maintenance
- Excellent gloss and colour retention
- Twin pack formulation
- Application by brush, roller or spray
- Range of gloss levels available



Before



After



Before



After

Properties	Urethane Coating UV 840
Mixing Ratio	3:1 by volume (full & semi gloss) 4:1 by volume (low gloss & matt)
Colours	Selected BS 4800 & RAL colours (minimum batch order quantities may apply)
Pack Sizes	4 litre and 20 litre
Solids Content	55%
V.O.C. (as supplied)	425-485 gm/litre depending on colour
Drying & Cure Times at 20°C (68°F)	
Usable Life	Approximately 2 hours
Touch Dry	3-4 hours
Rainfall Resistant	4 hours
Minimum Overcoating	6 hours
Maximum Overcoating	24 hours
Full Cure	7 days
At lower temperatures the drying times and minimum overcoating times will be extended	
Performance Data ***	
Dry Heat Resistance ASTM D2485	100°C (212°F)
Abrasion Resistance ASTM D4060	25 mgm weight loss per 500 cycles - 1 kg load - CS10 wheel
Impact Resistance BS 2782 Part 3	No Failure (0.9 kg (1.98 lbs) load dropped 45 cm (18 inches))
Direct Pull Adhesion ASTM D4541	63 kg/cm ² (900 psi) - Steel 35 kg/cm ² (500 psi) - Concrete (Concrete Failure)
Pencil Hardness ASTM D3363	2H
Salt Fog Resistance ASTM B117	Excellent - Unaffected after 1,000 hours exposure
UV Resistance ASTM G53	1,000 hours QUV-B No loss of gloss No colour change
Humidity Resistance BS 3900 Part F2	Unaffected after 1,000 hours exposure
Scratch Resistance BS 3900 Part E2	No Failure 2.5 kg (5.5 lbs) load
Reaction to Fire	BS 476 Part 6 - Class 0 BS476 Part 7 - Class 1

*** When applied over 3M™ Scotchkote™ Epoxy Primer MC 135

CHOICE OF
GLOSS
LEVELS

EXCELLENT
GRAFFITI
RESISTANCE

EASY
SPRAY WITH
H.V.L.P.
EQUIPMENT

3M™ Scotchkote™ Clear Waterproof Coating WP 880

There are many occasions when it is necessary to weatherproof/waterproof the exteriors of buildings without detracting from the natural appearance of the brick or stone finish.

Traditional methods of achieving this are to use inexpensive silicone based impregnation solutions, however, such systems offer a number of disadvantages. Silicones are unstable and do not offer long term waterproofing or weatherproofing. On certain types of building materials they trap in moisture during cold and wet conditions accelerating freeze thaw damage. Silicones act as release agents and subsequent top coats will not adhere. This is of particular concern when re-protecting or re-painting parts of the structure.

3M™ Scotchkote™ Clear Waterproof Coating WP 880 is a non-silicone product which provides a clear waterproofing treatment for external masonry surfaces without these disadvantages and will give up to 10 years protection.

In some situations the use of a water repellent treatment is not adequate to guard against environmental attack, but the natural appearance of the structure must be maintained. For these circumstances Scotchkote Clear Waterproof Coating WP 880 is an ideal solution. Whilst providing environmental protection, the system still allows the wall to breathe and water vapour can still permeate out of the structure. The coating sits below the surface of the stone therefore not detracting from the natural look of the building.

Feature & Benefits

- Good application characteristics
- Good speed of drying
- No change to the natural appearance of surface
- Simple application – Brush, Roller or Spray
- Complies with BS 6477:1992 - Specification for water repellents for masonry surfaces
- Micro-porous – Allows building to “breathe”



TOP TIP

For simple application, use a garden pump spray to apply a flood coat to the surface.

Property	Value
Colour	Clear
Ratio	Supplied ready to use
Drying & Cure Time at 20°C (68°F)	2-4 hours
Volume Solids (Average Mixed)	7%
V.O.C. (As Supplied)	712 gm/litre
Practical Coverage Rate	Varies between 2m ² and 4m ² per litre depending on porosity of surface

External Mineral Wall Protection

There are many differing types of materials used in the construction of our buildings from natural stone to brick and blockwork. 3M™ Scotchkote™ External Wall Protection Systems are suitable for application to most of the main types.

Brickwork

External brickwork is usually rough, textured and porous in nature, and as a result the surface can be very retentive of dirt and contamination. Engineering grade bricks and glazed bricks are also used on external surfaces.

Fibre Cement

Fibre cement panels are one of the more common low cost cladding systems found on older industrial buildings.

Masonry

These are construction materials produced from natural stone products such as:

Sandstone: Surfaces of sandstone tend to be porous and can have a powdery finish. Being absorbent, old sandstone is very susceptible to impregnation from atmospheric pollutants and can be black in appearance. Before any coating can proceed, all these pollutants must be removed by power washing.

Limestone: Being basically a form of calcium carbonate, limestone is readily attacked by acid rain and quickly becomes eroded.

Granite: Granite surfaces are very hard, generally impervious and extremely weather resistant, therefore they suffer very little erosion due to airborne pollutants.

Concrete

Where concrete is used for general wall formation it is normally in the form of pre-cast panels which can vary in porosity, but in some structures such as car parks the concrete may be poured in-situ.

Blockwork

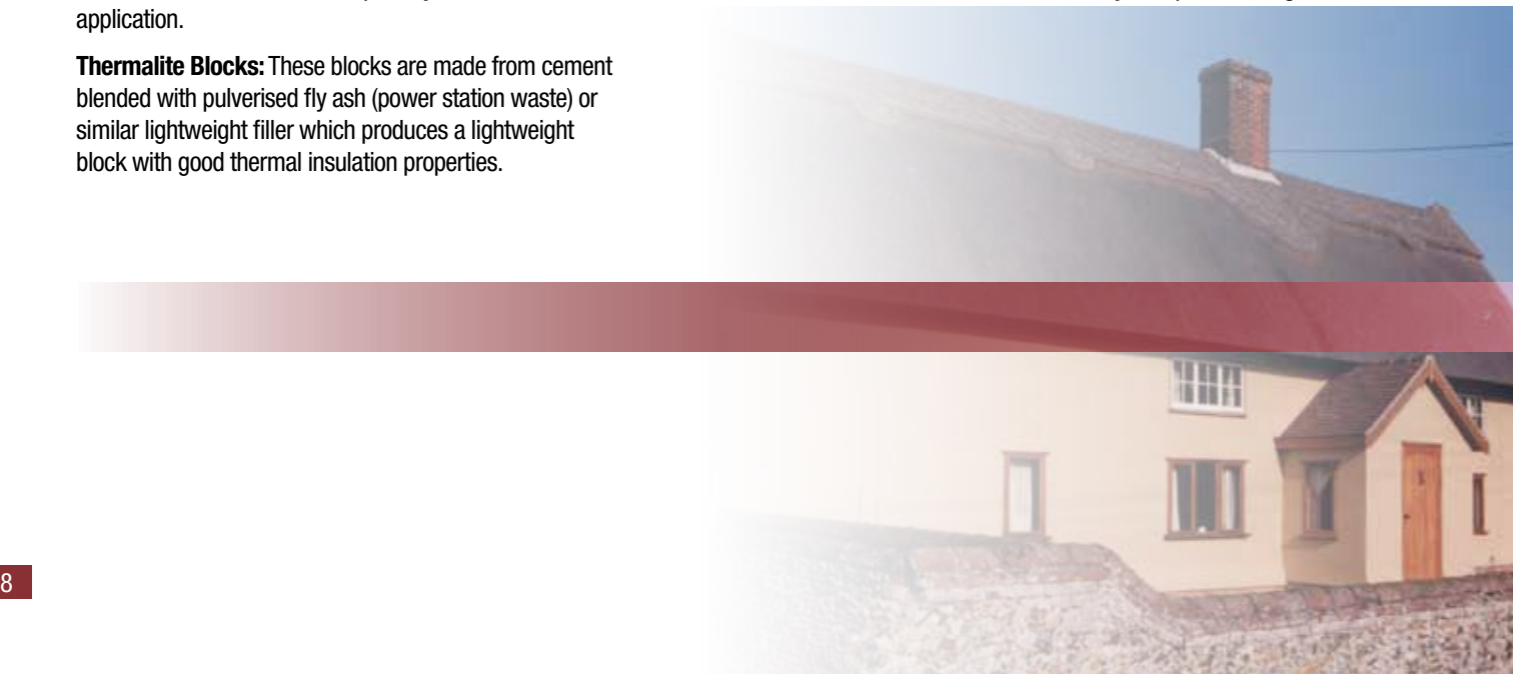
There are four basic types of blockwork commonly encountered on external wall surfaces

Breeze Blocks: Breeze blocks are formed by mixing a coarse aggregate, usually furnace clinker, with cement and these blocks have a very open texture.

Concrete Blocks: Concrete blocks are very similar to breeze blocks, but are usually produced using a sand/aggregate/cement mix. The texture of concrete blocks is not as open as breeze blocks.

Fairfaced Blocks: These are specially formed concrete blocks with a dense, close knit finish which more readily accepts a coating application.

Thermalite Blocks: These blocks are made from cement blended with pulverised fly ash (power station waste) or similar lightweight filler which produces a lightweight block with good thermal insulation properties.



3M™ Scotchkote™ External Wall Coating FP 812

This is a high performance, water based acrylic coating for exterior mineral wall surfaces. This material is flexible with good anti-carbonation properties and, being micro-porous, it allows the building to “breathe”, so avoiding damp and condensation problems developing.

Feature & Benefits

- Good application characteristics
- Fast drying capability
- Multi-substrate compatible – Usually without a primer
- High degree of flexibility
- Abrasion resistant finish
- Brush, roller and airless spray application

Property	Value
Colour	White and Select Colour Range
Pack Size	20 litre
Drying & Cure Times @ 20°C (68°F)	
Touch Dry	30 minutes
Minimum Overcoating	2 hours
Maximum Overcoating	Indefinite providing surfaces are clean
Volume Solids	60%
Specific Gravity	1.35
V.O.C. (As Supplied)	Nil
Film Thickness	200-250 microns dry
Theoretical Coverage Rate	2.5 m ² per litre @ 240 microns dft

Note:
The actual thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational performance criteria and may be higher or lower than the quoted typical value. Detailed system recommendations are available on request.



Before

After



Before

After

SPRAY

This product can be applied by airless spray with a spray pressure of 2500 psi. The spray tip should be 19-21 thou orifice. No thinning of the product is required for spray application. The material should be applied to achieve a total dry film thickness of 100 microns.

3M™ Scotchkote™ Anti-Graffiti Systems

Graffiti, and its removal, costs local authorities, public utilities and other organisations millions of pounds every year. However, by using an anti-graffiti coating system these costs can be significantly reduced.

Traditional methods of graffiti removal, particularly on masonry surfaces, usually involve some form of abrasive cleaning which actually removes the surface fabric of the structure, so any treatment which overcomes this expensive necessity is obviously an advantage.

Our systems give a wide variety of options to protect substrates from graffiti attack and allow simple, easy cleaning for both internal and external surfaces in clear or coloured finishes.

3M™ Scotchkote™ Anti Graffiti Wall Coating AG 845 is a clear non-sacrificial system for application to porous masonry to provide a graffiti resistant finish whilst allowing the surface to retain its natural appearance.

3M™ Scotchkote™ Urethane Coating UV 840 is also a non-sacrificial system available in a range of colours and clear to provide a high gloss finish in 1-2 coats which is highly UV stable and resistant to graffiti.

Feature & Benefits

- Easily cleaned and maintained
- Wide range of colours
- Clear finishes to keep natural appearance of surface
- Long term cost effectiveness
- Protects surface from damage
- UV stable
- Chemical resistant
- Scratch and impact resistant
- Hard wearing
- Excellent colour retention



Before

After

To the graffiti vandal, their work is a statement that demands notice and the longer their “tag” (name or logo) is displayed it encourages additional graffiti. If the graffiti is removed as quickly as possible then the “artists” soon become discouraged by the destruction of their handiwork and either move on to another site or stop applying graffiti. Efficiently managed removal of graffiti is effective and, by using 3M™ Scotchkote™ Anti-Graffiti Systems, can be done very quickly and easily.

Once a 3M™ Scotchkote™ Anti-Graffiti system is applied then subsequent graffiti can be removed simply and quickly using the appropriate 3M™ Graffiti Remover.



Concrete Repair

Before any coating system can be applied, many walls or lintels may require some form of repair or rebuilding to make them suitable for coating.

A typical example is water penetration into concrete, causing the reinforcing bars to rust and expand outwards and causing the concrete to spall.

3M™ Scotchkote™ Concrete Repair Systems ensure that the structure is up to standard to accept a 3M™ Scotchkote™ External Wall Protection System.

3M™ Scotchkote™ Epoxy Concrete Mortar LW 405 has been specifically developed as a three component, 100% solids, light weight repair mortar for use on concrete surfaces.

Feature & Benefits

- Good application characteristics
- Application by trowel or float
- Can be used to form wall/floor coverings
- Excellent hold up on vertical and overhead surfaces
- Excellent adhesion to correctly prepared surfaces
- High order of resistance to abrasion & mechanical damage
- No shuttering required



Before

After

High Level Glass Protection

Skylight, roof lights and high level glass are all susceptible to damage from falling brickwork, vandalism and environmental damage made worse by poor housekeeping.

Typical examples are old GRP skylights that no longer form a proper seal and have become crazed and porous. Broken wired Georgian glass and rotting glazing bars all allow water penetration which in turn affects the integrity of the structure.

3M™ Scotchkote™ Urethane Glass Coating 605 is a moisture triggered polyurethane anti-shatter system for the protection of high level glass and the reinstatement of plastic roof lights.

Feature & Benefits

- Independently tested to BS 6206:1981 – Class A – Pass
- Retains good transparency
- UV Stable
- Single pack formulation
- Quick and easy to use



Checking Adhesion of Previously Painted Surfaces Prior to Coating

Adhesion can be checked using two simple methods, the “V” cut or the cross hatch method.

V' Cut Procedure (Knife Test)

Using a sharp knife the coating should be cut through to the substrate making two cuts in the shape of a letter 'V'. The knife should then be inserted at the point of the 'V' and “flicked” upwards to test the adhesion. If no coating is removed, or the coating splits cohesively, leaving a layer of coating on the surface, then the adhesion of the system can be considered suitable for overcoating with a 3M™ Scotchkote™ Cladding Refurbishment System.

A standard method for the application and performance of this test is available in ASTM D6677. This method is suitable for coatings with a dry film thickness of 125 microns and above.

Cross Hatch Method (Tape Test)

Again using a sharp knife make a series of parallel cuts (8-10 in number) through the coating to the substrate approximately 1mm apart then repeat the operation with a second series of cuts at 90° to the original cuts.

Adhesive tape should then be applied over the cut “grid” and pressed firmly onto the surface, then given a sharp tug to remove the tape. The surface of the coating should then be examined and if any squares are completely removed it is not advisable to apply a high performance system, removal of the suspect system is recommended.

Where an existing coating is already flaking from the substrate it is advisable to carry out a thorough investigation to the cause of the flaking, it could be due to contamination of the substrate, dampness in the substrate or hydrostatic pressure (particularly below ground surfaces).

A standard method for the application and performance of these tests is available in ASTM D3359. This method is suitable for coatings with a dry film thickness of 125 microns and below

Treating Cut Edge Corrosion

Premature failure of metal cladding roofing/exterior walling systems is commonly caused by the cutting of the cladding to fit during installation, leaving the metal edge exposed to the elements for prolonged periods of time. Delamination of the protective plastisol finish occurs in the form of a 'peel-back', due to the effect of rainwater running down the cladding causing wicking behind the unprotected metal.

If the exposed cut edge is not addressed quickly then rusting and corrosion takes hold of the metal sheeting causing even further delamination of the factory finish. Eventually this causes leaks into the building, damage to the interior and very rapid deterioration of the metal cladding resulting in considerably increased maintenance costs – and in some instances complete roof/cladding replacement.

Using 3M™ Scotchkote™ Priming Systems can resolve the issue of cut edge corrosion. The selected primer can be used in isolation or as part of a complete coating system. The treatment of cut edge corrosion begins with a comprehensive clean and a thorough wire brushing of the rust and then the removal of the loose or delaminated finish back to a sound edge.

These areas can then be treated in a number of ways including the example below. Our Technical Information Centre can provide specific system recommendations for your project on request.

Example

- 1 3M™ Scotchkote™ Urethane Primer MCU 126 to all prepared overlap areas
- 2 3M™ Scotchkote™ Urethane Coating PU 846 colour matched to the existing coating



Typical example of cut edge corrosion

3M™ Scotchkote™ External Wall Protection Systems Guide

Product	Used For	No of Coats (Excluding Primers)	Typical Dry Film Thickness Microns (mils) Per Coat	Volume Solids	Pack Size	Coverage Rate Per Coat
Anti-Graffiti Wall Coating AG 845	Clear Coating For Natural Mineral Surfaces	2	15 microns per coat	17%	5 litre	11m ²
Clear Waterproof Coating WP 880	Waterproofing Of Blockwork, Brick & Masonry	1	Flood Coat	7%	5 litre	10-20m ²
					25 litre	50-100m ²
Urethane Coating PU 846	Plastic Coated Metal Sheet	1-2 *	75 microns	60%	20 litre	160m ²
Encapsulation Coating Polynox 136	Plastic Coated Metal Sheet and Previously Painted Surfaces	1	100 microns	60%	20 litre	100m ²
Urethane Coating UV 840	Plastic Coated Metal Sheet and Anti-Graffiti	1-2 *	75 microns	55%	4 litre	55m ²
					20 litre	160m ²
External Wall Coating FP 812	Rendered Surfaces	1	200-250 microns	60%	20 litre	50m ²
Urethane Glass Coating 605	Anti-Shatter System	2 **	150 microns per coat	60%	5 litre	4m ²

* Depending on the depth of colour change required

** One coat on both sides of glass to meet requirements of BS6206:1981

Cladding Refurbishment Colour Reference Table

COLOUR	BS 4800	RAL	COLOUR	BS 4800	RAL
White	00E55	9003	Straw		080 70 30
Goosewing Grey	10A05	7038	Svelte Grey	10B23	080 50 20
Pure Grey		000 55 00	Mole Brown		070 40 10
Anthracite		7016	Albatross	18B17	240 80 05
Black	00E53	9005	Heather		040 70 05
Ice Blue		230 80 10	Fox		040 50 20
Duck Egg		230 70 10	Seal		040 50 05
Denim		5014	Alaska Grey		7000
Cobalt		260 40 20	Petra	04D44	3013
Midnight		5008	Burano		3004
Cloud		210 80 10	Terracotta	04C39	040 40 40
Turquoise		6034	Van Dyke Brown	08B29	8014
Wedgewood Blue	18C37	220 50 15	Ocean Blue	18C39	220 30 25
Spruce		200 50 10	Sargasso		5003
Merlin Grey	18B25	180 40 05	Heritage Green		6002
Hamlet		9002	Juniper Green	12B29	140 20 20
Meadowland	12B17	100 80 20	Terracotta Matt **	04C39	040 40 40
Moorland Green	12B21	100 60 20	Anthracite Matt **		7016
Camouflage		110 50 10			
Olive Green	12B27	100 30 20			
Honesty	10C31	1015			
Mushroom	10B19	080 70 10			

4 digit numbers are RAL Classic references
7 digit numbers are RAL Design references
British Standard or RAL reference numbers shown represent the nearest colours and are not exact matches to Colorcoat HPS200 Ultra®

** 3M™ Scotchkote™ Urethane Coating UV 840 ONLY

All cladding colours are made to order . Minimum order quantities are also applicable

Colorcoat® and HPS200 Ultra® are registered trademarks of Corus Group PLC a subsidiary of Tata Steel Limited



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