Axalta coatings for cladding repair - maximum performance in minimum number of coats

CLADDING TYPE	CONDITION	SURFACE PREPARATION	ViterClad 50 SYSTEM
Leathergrain Plastisol i.e. Colorcoat HP200* (traditional type, leathery surface texture)	New and unweathered (sound)	Clean and let dry. Solvent wash with White Spirit	1 or 2 coats ViterClad 50
	Weathered (> 1 month, sound)	Clean and let dry	1 or 2 coats ViterClad 50
	Stripped to sound bondcoat or galvanised substrate	Clean, remove zinc salts, let dry	1 coat ViterClad Bonding Coat 1 or 2 coats ViterClad 50
Colorcoat HPS200* (dimpled Scintilla surface texture, not leathery)	New and unweathered (sound)	Clean and let dry. Solvent wash with XYLENE	1 or 2 coats ViterClad 50
	Weathered (> 1 month, sound)	Clean and let dry	1 or 2 coats ViterClad 50
	Stripped to sound bondcoat or galvanised substrate	Clean, remove zinc salts, let dry	1 coat ViterClad Bonding Coat 1 or 2 coats ViterClad 50
PVF2, Silicone Polyester, Powder Coating	New or Weathered (sound)	Clean and let dry	1 coat ViterClad Bonding Coat 1 or 2 coats ViterClad 50
	Stripped to sound bondcoat or galvanised substrate	Clean, remove zinc salts, let dry	

Plastisol HP200* - easily recognised by its classic 'leathery' surface texture. It should be solvent washed using White Spirit if weathered for less than one month. Older, weathered surfaces only require cleaning/degreasing.

Colorcoat HPS200* - this has a 'dimpled' surface texture, quite different from traditional leathergrain Plastisol. This Scintilla pattern has a tiny 'S' impressed inside it. It should be solvent washed with Xylene if weathered for less than one month.

PVF2, Silicone Polyester and Powder Coating - these common types of cladding have no surface texture. New or weathered, they require ViterClad Bonding Coat prior to application of ViterClad 50.

** HP200 and HPS200 are registered Trade Marks of Tata Steel UK Ltd.*

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AXALTA COATING SYSTEMS

Cladding Maintenance Coatings

‘Next generation’ cladding maintenance coatings

Axalta Coating Systems is a leading global coatings company focused 100% on the development, manufacture and sale of high performance liquid and powder coatings. Our innovative products and services include paint, colour matching tools, application technologies, customer training and business management systems.

On-Site Consultancy

What type of cladding does your building have? What cleaning or pretreatment procedures will be needed to ensure long term success from your recoating work? How many coats will be needed? Axalta Coating Systems experienced staff will be pleased to visit your site to give specific project advice.

Attractive Finish

ViterClad 50 has a semi-gloss finish, to reproduce as far as possible the attractive sheen finish of new cladding. It also maximises the environmental blending of the structure. Metallic shades such as RAL9006 are available.

Excellent Application Properties

ViterClad 50 was designed from scratch to have excellent application properties for ease of use.

ONE COAT SYSTEM

Older technology cladding coatings needed an adhesion primer for nearly every application, which meant at least a 2 or 3 coat system. ViterClad 50 can now often be applied as only a one coat system.

SUPREME 15 YEAR DURABILITY

ViterClad 50 has passed an independent testing program, far exceeding any previous evaluations for cladding coatings (see Table opposite). Because of this extremely demanding test program, coupled with real-world experience, ViterClad 50 can be used for specifications demanding up to 15 years life - most older cladding coatings could only claim a maximum of 10 years, often much less.

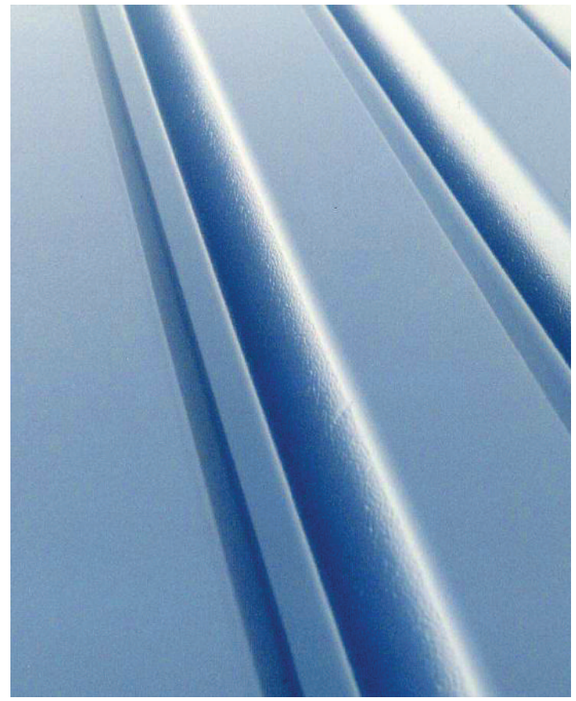
RESISTS THERMAL SHOCK

Overnight, cladding will cool down quickly. Bright sunlight can then cause sheeting temperatures to soar by 20-30°C within minutes. This degree of thermal shock puts a high level of stress on the cladding coating. ViterClad 50 has been shown to have excellent expansion and contraction properties, so that it remains fully adherent year after year without cracking or delamination.

COLOURFUL BONDING COAT

For application to bare galvanised cladding, and to PVF2, Silicone Polyester and Powder Coated cladding types, an adhesion coat of ViterClad Bonding Coat is required.

Older-style cladding adhesion coats usually had very restricted colour availability, meaning several topcoats might be required for good opacity. ViterClad Bonding Coat is available in a wide colour range, so that the optimum ‘undercoat’ shade can be chosen. This means that often a total system of only two coats can be applied.



TEST	METHOD	PURPOSE	RESULT
Accelerated Weathering	QUV-A to ASTM 4587-86 for 4000 hrs	Long term weathering resistance	Pass
Hot Salt Spray	ASTM B117 for 1000 hrs	Resistance to corrosion, marine environments, road salt	Pass
Sulphur Dioxide Exposure	BS3900-F8, 0.2lt./10 cycles	Resistance to corrosion and polluted/industrial environments	Pass
Adhesion	ASTM 3359 Method A	Adhesion and overall performance	Pass
Humidity	BS3900-F2, 1000 hrs	Adhesion in extreme humid atmospheres	Pass
Water Soak	40°C for 1000 hrs	Resistance to water ponding on roofs and horizontal surfaces	Pass
Alkali Resistance	2% caustic soda at 20°C for 24 hrs	Resistance to bird guano and washing detergents	Pass
Impact Resistance	BS3900-E3, falling weight (face and reverse impact)	Resistance to impact damage	Pass
Scratch Resistance	BS3900-E2	Resistance to scratch damage	Pass
Application to Damp Surfaces	Misted surface	Tolerance to application conditions	Pass
Low Temperature Curing	Curing at +2°C	Tolerance to application conditions	Pass
Exterior Weathering	South facing 45° for 2 years	Weathering resistance	Pass