ProTech Global

Technical Data Sheet

PROCLAD PLUS HD™

The Ultimate All Weather Jacketing & Cladding System

Product Description

PROCLAD PLUS HD™ with its advanced modified acrylic adhesive, affords superior performance benefits with longstanding results. The new bench mark in multi-layered malleable cladding boasts a zero-perm rating for the prevention of moisture ingress. With increased strength and UV resistance this weatherproof product is the ultimate solution for the cladding of insulated duct and pipe systems, providing unparalleled durability; absorbing impacts without deformation whilst maintaining an excellent enduring appearance.

Characteristics & Advantages

- External & internal applications
- Proven UV resistance, 10 years+
- Increased puncture resistance
- Salt water resistant
- Resistant to a range of chemicals
- Compliant for indirect food contact
- Fire rating EN 13501
- Long term protection and durability
- Extends the serviceable life of infrastructure and lowers maintenance costs

Product Data

Item	Value	Standard
Product Thickness	350 microns	DIN ISO 4593
Tensile Strength	>285 newtons	EN 527-3
Elongation at Break	35%	EN 527-3
Water Permeability	0.00 g/m2/d	ASTM F1249 ISO 15106-2
Puncture Resistance	>125 newtons	DIN EN 14477
Service Temperature	-25˚C to +75˚C	
Application Temperature	-25˚C to +75˚C	
Emissivity Value	0.03 to 0.84	
UV Testing	10 years plus	ASTM G 26A ISO 4892-2
Fire Rating	15/35 B-s1 d0 Annex 1: Part 5 10/40	ASTM E84 EN 13501-1 IMO Resolution MSC 307(88) (2010 FTP Code) CAN/UCL-S102

Product Range & Sizes

Name	Colour	Micron	Width (mm)	Length (m)
PROCLAD HDG	Grey	350	600, 1000† & 1200†	25
PROCLAD HDS	Silver	350	600, 1000† & 1200†	25
PROCLAD HDEMB	Silver Embossed	500 (20 mils)	1000	22.86

†Available in both adhesive and non-adhesive form.

Installation Guidelines

Coverage	1 x 600mm roll equates to 15m² 1 x 1000mm roll equates to 25m² 1 x 1200mm roll equates to 30m²

Surface preparation: Ensure all surfaces are dry and clean, free from dirt and dust, grease, oil and silicones. The insulation materials should be installed to industry standards and sealed using one of ProTech Global's aluminum foil tapes, GT30HT or GTR55.

Application: When applying PROCLAD PLUS HD™ ensure that the correct pressure is applied using the plastic applicator (provided) as the adhesive is a PSA and requires a firm application to provide a full surface bond.

When placing the cut piece of PROCLAD PLUS HD™ into position, partially peel back the liner to allow correct positioning and then rub down, continue to peel back the liner whilst pressing in to place using the hand to prevent creasing, once the full piece has been applied use the plastic applicator and rub the complete surface to ensure the full adhesive bond required. Continue to apply PROCLAD PLUS HD™ ensuring that a minimum 75mm overlap is observed to the previous piece to ensure a strong weatherproof seal.

Proclad T tape must be applied to seal the Proclad Plus HD overlap. 100mm wide Proclad T tape is to be applied to all overlap a joints when using Proclad Plus HD. Be certain to rub over the tape with the applicator to provide a full adhesive bond. The use of Proclad T Tape is mandatory on all overlaps.

Further detailed information can be found on the installation guide, available on request

Method Statements: ProTech Global Ltd provides detailed method statements for use in various applications, and are available upon request. These must be referred to prior to commencing work.

Alternative Products

PROCLAD150™ is the premium multi-layered laminate system, which provides a weatherproof cladding and jacketing system to insulated duct and pipe systems. The 6-ply laminate has a zero-perm rating to prevent moisture ingress and with increased strength and UV resistance, PROCLAD150™ provides a market leading solution.

Proclad PLUS HD™ Weather Protection Cover Film – Physical & Chemical Stability

Acids	acetic acid (all concentrations)	resistant
	50% formic acid	resistant
	10% hydrochloric acid	resistant
	30% hydrochloric acid	partially resistant
	10% and 25% hydroflouric acid	resistant
	10% nitric acid	resistant
	65% and 100% nitric acid	not resistant
	30% and 85% phosphoric acid	resistant
	20% sulphuric acid	partially resistant
	sulphur dioxide gas, dry	resistant
	80% and above sulphuric acid	not resistant
Aldehydes	acetaldehyde	resistant
	formaldehyde	resistant
Alcohols	benzyl alcohol	partially resistant
	cyclohexanol	resistant
	ethyl alcohol	resistant
	glycerine	resistant

	glycol	resistant
	isopropyl alcohol	resistant
	methyl alcohol	resistant
Aqueous alkaline solutions	ammonium hydroxide	not resistant
	calcium hydroxide	partially resistant
	sodium hydroxide	not resistant
Chlorinated hydrocarbons	carbon tetrachloride	partially resistant
	chlorinated biphenyls	partially resistant
	chloroform	resistant
	trichloroethylene	resistant
Esters	ethyl acetate	resistant
Hydrocarbons	aliphatic hydrocarbons	resistant
	benzene	resistant
	gasoline (petrol)	resistant
	mineral oils	resistant
	toluene	resistant
	xylene	resistant
Miscellaneous substances	Calcium hypochlorite	resistant
	chlorine	resistant
	hydrogen peroxide	resistant
	oxygen	resistant
	Sodium hypochlorite	resistant
	water*	resistant
Other organic solutions	acetone	resistant
	diethylether	resistant
	nitrobezene	not resistant
	phenol	not resistant
Salt solutions	alkaline carbonates	resistant
	bichromates	resistant
	cyanides	resistant
	fluorides	resistant
	Sodium Chloride	resistant

*At elevated temperatures (approx. > 100˚C) and in the presence of water (vapour), the PROCLAD PLUS HD™ cover film tends to become brittle as a result of hydrolysis.

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Legal Notices

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About ProTech Global Ltd

ProTech Global Ltd is a UK based company that has manufactured anti-corrosion products for over 25 years. With many years' experience in differing types of protection scenarios, ProTech Global Ltd has a reputation as a trusted supplier and partners with many corporations worldwide.

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