

POSCO C&C 30 Year Plastisol

(28th January 2020)



posco
C&C



POSCO C&C Plastisol Overview

POSCO C&C’s Plastisol offers a range of benefits over other pre-painted products. It’s durability, resistance to corrosion and advanced colour fastness allows for a performance warranty up to 30 years.

- 200µm Durable abrasion resistant topcoat
- Leathergrain embossed finish
- 30 Year POSCO performance warranty
- Extensive colour range
- Aluzinc substrate providing outstanding corrosion resistance
- 5-7µm primer reverse coat suitable for foam adhesion
- Excellent formability and durability
- Excellent colour stability
- Suitable for roof pitches down to 1°
- Fire certified



	Test Result	Test Standard
Film Thickness	Ave. 200µm	EN 13523-1
Gloss (60°)	10~35%	EN 13523-2
Emboss	Leathergrain	
Abrasion resistance (CS-10, 1kg, 250rev)	10~15mg	EN 13523-16
Scratch resistance	> 5000g	EN 13523-12
Flexibility	T-Bend (0T, 16°C)	EN 13523-7
Reverse impact	18J	EN 13523-5
Salt Spray Resistance	1000 hours	EN 13523-8
Humidity Resistance	1500 hours	EN 13523-26
Internal Environment Classification	CPI5	EN 10169
Corrosion resistance Category	RC5	EN 10169
UV resistance category	Ruv3	EN 10169
Fire Classification	C – s2, d0	EN 13051-1
Guarantee	Up to 30 years	

POSCO C&C Plastisol Properties

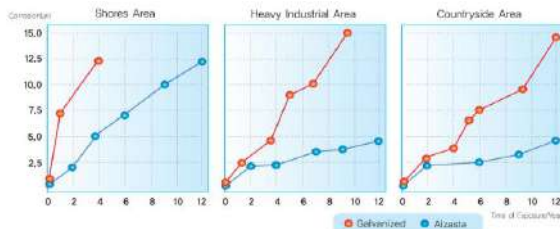
POSCO C&C have undertaken extensive testing in order to highlight the benefits of both their Aluzinc substrate, and their 200µm Plastisol topcoat. A number of these are detailed below.

Aluzinc Substrate

POSCO C&C's Plastisol is applied to a hot-dipped 55% Al-Zn alloy coated steel sheet.

This provides a number of benefits:

- Boasts excellent corrosion resistance from both robust oxidation of aluminium, and the sacrificial cathodic protection of a zinc coating
- Maintains 3 to 6 times the durability of galvanised material in a range of corrosive environments
- Excellent formability, and durability at forming sections due to relatively small micro-cracks in forming



Ball Impact Test



◆ No peeling-off at 500mm impact test

Bending Test

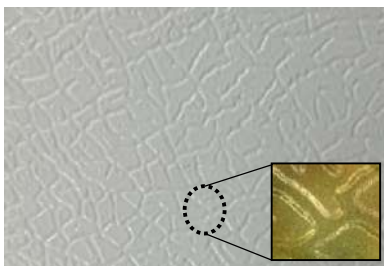


◆ No peeling-off at 0° and 180° bend test

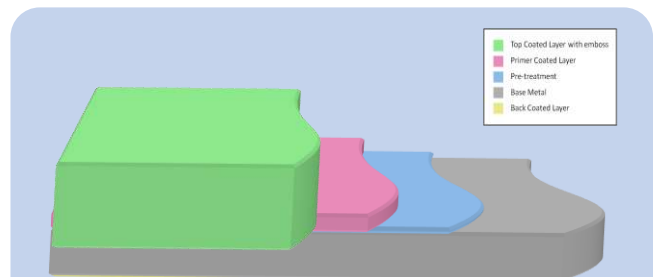
PVC Coating

POSCO C&C's Plastisol coating has the resin preserving properties of plastic, which gives outstanding weather resistance, chemical resistance, and corrosion resistance.

- The paint layer can elongate up to 300%-400% without cracking, allowing for heavy processing and forming with high flexibility
- The plastisol applied consists of polyvinyl chloride based thermoplastic resins with short molecular chains for better UV resistance with advanced colour fastness
- Multi layer coatings are applied to Al-Zn coated high tensile steel strip and oven cured to ensure optimum adhesion. This gives a sheet with excellent corrosion resistance and climatic protection together with abrasion resistance and high strength



- 200µm top coat
- Leathergrain emboss pattern
- Extensive range of colours
- 5-7µm epoxy back coat
- Suitable for foam adhesion



POSCO C&C Plastisol Warranty

POSCO C&C offer a mill backed performance warranty for this product, covering their full range of colours and a range of European locations.

Items	Region	Color	30 Year PVC	
			Roofs	Walls
Northern Europe 	Inland	Class 1	30y	30y
		Class 2	20y	25y
	Coastal	Class 1	25y	25y
		Class 2	15y	20y
Southern Europe 	Inland	Class 1	15y	15y
		Class 2	15y	10y
	Coastal	Class 1	8y	10y
		Class 2	8y	10y



Class 1 : Light colours

Class 2 : Dark colours

Coastal: within 1 mile of any coast

Class 1	Nearest BS ref.	Class 2	Nearest BS ref.
Bamboo	08C35	Black	00E53
Buttermilk	10C31	Cornflower Blue	18E53
Goosewing Grey	10A05	Country Green	RAL6011
Ivory	RAL9002	Crimson	RAL3004
Merlin Grey	18B25	Golden Glow	06E56
Moorland Green	12B21	Golden Yellow	08E51
Mushroom	10B19	Forest Green	RAL6002
New Grey	10B23	Jade	14C37
Olive Green	12B27	Juniper Green	12B29
Pigeon Grey	18B17	Linden Green	12E53
Wedgewood Blue	18C37	Navy	RAL5003
White	00E55	New Red	04D44
Willow	12B17	Ocean Blue	18C39
Albatross	18B17	Pacific Blue	18E58
		Poppy Red	04E53
		Saffron	08E53
		Sage Green	12D45
		Slate Blue	18B29
		Tangerine Orange	06E53
		Aztec Yellow	10E55
		Terracotta	04C39
		Vandyke Brown	08B29
		Anthracite	RAL7016

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