

**SOLIDAL®**

**Kynar® 500 CONTINUOUS COATED P.P.G. PVDF**

**SOLIDAL® T3®  
SOLIDAL® T4®**

**Solid Aluminium Façade Solution**

## SOLIDAL® Kynar® 500® Continuous Coated PPG PVDF

Unlike traditional powder coating and anodising which require pre-cassette fabrication before coating. SOLIDAL® continuous coated Kynar® PVDF does not require fabrication prior to coating.

### DURABILITY

The face of toughness

Prepainted SOLIDAL® T3® and SOLIDAL® T4® are amazingly durable. With the appropriate surface treatments, SOLIDAL® pre-finished aluminum can be made virtually:

- Waterproof
- Weatherproof
- Corrosion resistant
- UV resistant
- Even smog-eating

All of this helps ensure a long service life, low maintenance without degradation.

### INNOVATION

#### Reimagine Your World

SOLIDAL® pre-finished metal enables product designers, architects, engineers, to reinvent products of all types. Innovative shapes, colors, patterns, textures, and specialty coatings are all possible with SOLIDAL® pre-finished metal.

#### Building Tomorrow Today

SOLIDAL® T3® and SOLIDAL® T4® pre-finished aluminium can be used for all building types, producing buildings with both function and beauty. From residential housing to industrial and commercial applications, pre-finished SOLIDAL® metal can add that awe-inspiring finish to all architectural projects.



## SOLIDAL® Kynar® 500® Continuous Coated PVDF **Amazing colours brought to life**

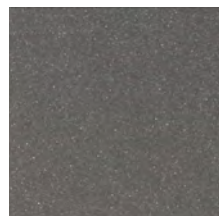
SOLIDAL® continuous coating process itself is considered the most environmentally responsible way to apply paint to aluminum substrate. It's the most eco-friendly coating process on Earth. Here's why:

- **98% VOC Capture:** Continuous coating is a highly efficient 'closed loop' process, meaning that the coating curing ovens burn the harmful VOCs, using them as fuel, saving energy and eliminating pollutants. Continuous coating achieves at least a 98% rate for capture and destruction efficiency, eliminating toxic air pollutants that would otherwise be released into the air.
- **Centralized Operations:** By centralizing paint operations, moving them from the manufacturers' inefficient in-house paint shops to continuous coaters' high-tech coating lines, environmental issues are concentrated, controlled, and even eliminated.
- **Exceeds EPA Standards:** The continuous coating industry is subject to the highest EPA standards and meets and exceeds these standards even as they become more stringent year after year.
- **Recyclable & Recycled:** The end products are green. SOLIDAL® Prepainted metal is fully recyclable, and continuous coated products are often made of recycled content.

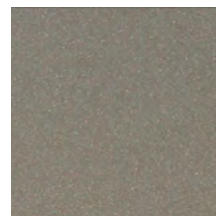
# Metallic



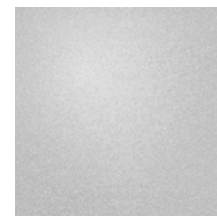
Moon Light Silver  
NU004  
PVDF / PE



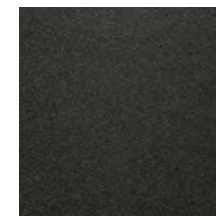
Silver Grey  
NU007  
PVDF / PE



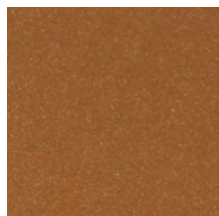
Dark Champagne  
NU006  
Nano PVDF



Silver Gloss  
NU037  
Nano PVDF



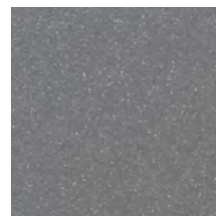
Dark Pearl  
NU009  
PVDF / PE



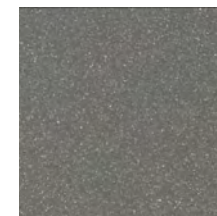
Golden Brass  
NU014  
PVDF / PE



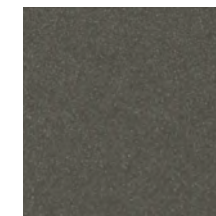
Golden  
NU013  
PVDF / PE



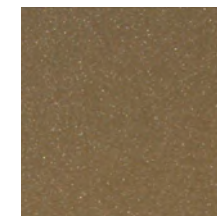
Glittering Silver  
NU001  
PVDF / PE



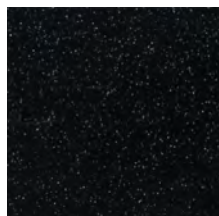
Slate Silver  
NU005  
PVDF / PE



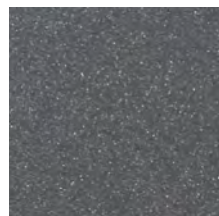
Charcoal Silver  
NU008  
PVDF / PE



Sugar Bronze  
NU017  
PVDF / PE



Pearl Black  
NU051  
PVDF / PE



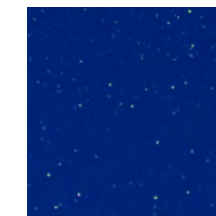
Tin Silver  
NU030  
Nano PVDF



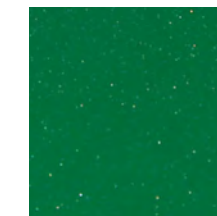
True Silver  
NU002  
PVDF / PE



Pearl Red  
NU047  
PVDF / PE

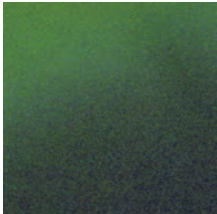


Pearl Blue  
NU048  
PVDF / PE

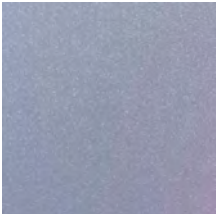


Pearl Green  
NU049  
PVDF / PE

# Spectra



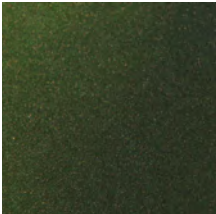
Green Line  
PVDF/PE



Bubble Blue  
PVDF/PE



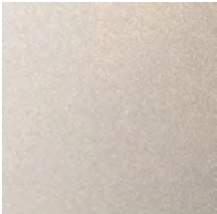
Jewel  
NU059  
PVDF/PE



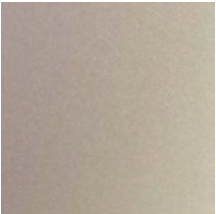
Autumn  
NU060  
PVDF/PE



Sunset  
PVDF/PE



Sahara Crystal  
PVDF/PE



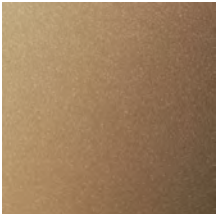
Kanta  
PVDF/PE



Saura 917  
NU061  
PVDF/PE



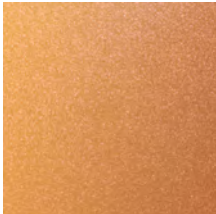
White Silver  
PVDF/PE



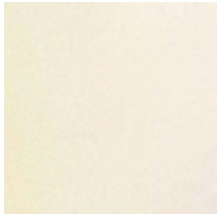
Copper Roof - NU0..  
PVDF/PE



Midnight Copper  
PVDF/PE



Cupral  
NU058  
PVDF/PE



Ivory Gold  
PVDF/PE





# Forest Inspiration

A forest canopy provides shelter and protection, and is equally dark and mysterious. SOLIDAL® T3® & T4® pre-painted Solid Aluminium Forest Collection reflects these sentiments in an urban landscape.



Bamboo -  
NUF015  
Solid PVDF/PE



Gloss Traffic Green  
NUF039  
Solid PVDF/PE Solid



Heavy Green  
NUP030  
PVDF/PE



Green Moon  
NUF005  
Solid PVDF/PE



Palm Leaf  
NUF004  
Solid PVDF/PE



Gloss Green  
NU040  
Solid PVDF/PE



Jarden Olive  
NUF007  
Solid PVDF/PE



Wet Moss  
NUF014  
Solid PVDF/PE



Dry Leaf  
NUF011  
Solid PVDF/PE



Tree Brown  
NUF017  
Solid PVDF/PE



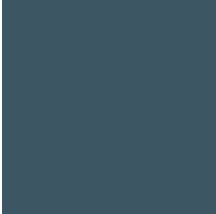
Yellow Metal  
NUN006  
Solid PVDF/PE

# Ocean Inspiration

Occupying over two thirds of the worlds surface. The ocean is an alien world with a mystery that evokes interest and intrigue through it's depth of colors. Explore SOLIDAL® T3® & T4® pre-painted Solid Aluminium Ocean Collection.



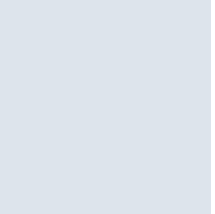
Grey Teal  
NUO009  
PVDF/PE



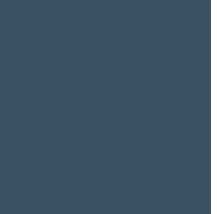
Night Sea  
NUO014  
PVDF/PE



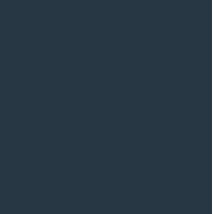
Forlorn  
NUO018  
PVDF/PE



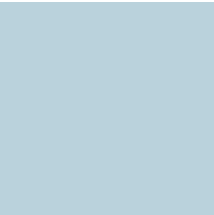
Summr Sky  
NUO021  
PVDF/PE



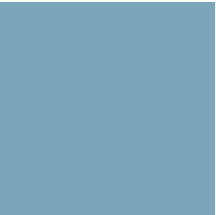
Deep Ocean  
NUO016  
PVDF/PE



Moon View  
NUO012  
PVDF/PE



Blue Cream  
NUO005  
PVDF/PE



Humid Sky  
NUO006  
PVDF/PE



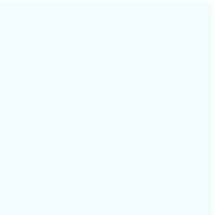
Gloss Blue  
NU042  
PVDF/PE



Gloss Light Blue  
NU041  
PVDF/PE



Blue  
NU027  
PVDF/PE

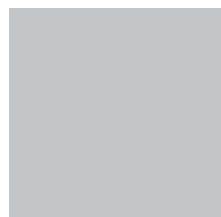


Pure White  
NU018  
PVDF/PE



# Pastel Inspiration

Whenever softness or subtlety is required, SOLIDAL® T3® & T4® Pastel colour range provides the perfect solution. Get Inspired by our Pastel Collection.



Heavy Storm  
NUO004  
PVDF/PE



Lavonne  
NUO010  
PVDF/PE



Grey Stone  
NUO013  
PVDF/PE



Charcoal  
NUN003  
PVDF/PE



Autumn Pink  
NUP012  
PVDF/PE



Grey Violet  
NUP014  
PVDF/PE



Grey Lilac  
NUP015  
PVDF/PE



Mute Dull  
NUP016  
PVDF/PE



Ice Blue  
NUP027  
PVDF/PE



Light Storm  
NUP028  
PVDF/PE



Pink Sand  
NUP029  
PVDF/PE



Igloo  
NUP036  
PVDF/PE



# Natural Inspiration

Natural features and affects that develop on their own accord are often the most beautiful. SOLIDAL® T3® & T4® pre-painted Solid Aluminium Natural series proves this, with their unique and special palette of finishes and textures.



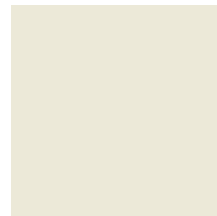
Deep Apricot  
NUD0221  
PVDF/PE



Dark Rosewood  
NUD027  
PVDF/PE



Light Peach  
NUD004  
PVDF/PE



Ivory White  
NU020  
PVDF/PE



Milk Yellow  
NU022  
PVDF/PE



Milk White  
NU021  
PVDF/PE



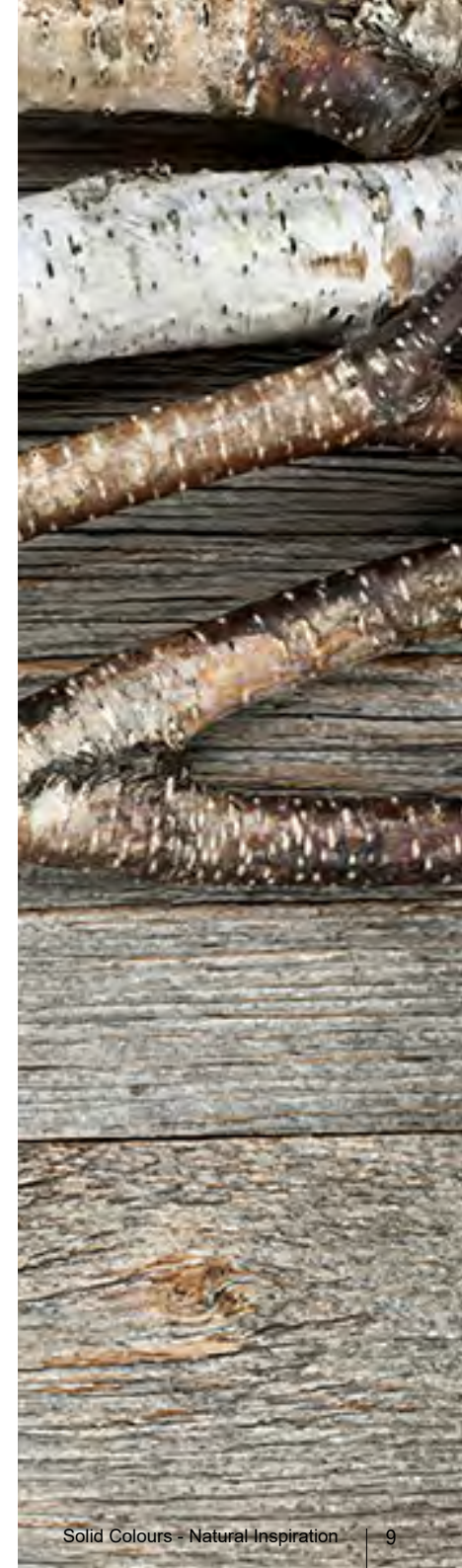
Western Color  
NUN005  
PVDF/PE



Yellow Metal  
NUN006  
PVDF/PE



Yellow Gold  
NUR027  
PVDF/PE

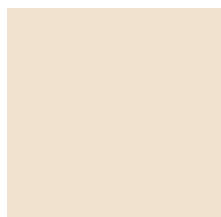




# Desert Inspiration

A barren arid area of land that covers one third of the lands surface.

SOLIDAL® T3® & T4® pre-painted Solid Aluminium Desert Collection varies from polar white to the sandy windswept dunes.



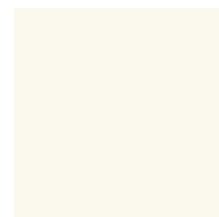
Dry Sand  
NU0038  
PVDF/PE



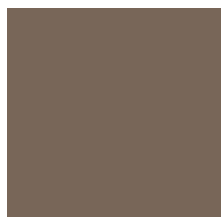
Bondi Sand  
NU0028  
PVDF/PE



Gloss Ivory White  
NU0036  
PVDF/PE



Dark White  
NU0019  
PVDF/PE



Theodor  
NU00091  
PVDF/PE



Tree Brown  
NU0017  
PVDF/PE



Linen Silver  
NU0012  
PVDF/PE



Kalamata  
NU0012  
PVDF/PE



Deep Tan  
NU0029  
PVDF/PE



Grey Tan  
NU0006  
PVDF/PE

# Orient Inspiration

Orient Collection brings the warm influence of the east with soft enticing colors on SOLIDAL® T3® & T4® pre-painted Solid Aluminium.



White Pepper  
NUR010  
PVDF/PE



Gloss Purple Coffee  
NUR010  
PVDF/PE



Pure Yellow  
NU023  
PVDF/PE



Gloss Traffic Red  
NU045  
PVDF/PE



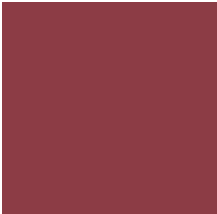
Curcuma  
NUR011  
PVDF/PE



Anis  
NUR028  
PVDF/PE



Grey Almond  
NUD014  
PVDF/PE



Indian Purple  
NUR008  
PVDF/PE



Chocolate Red  
NUD026  
PVDF/PE





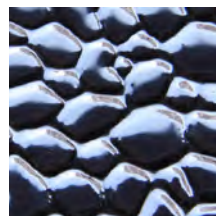
# Brushed & Embossed



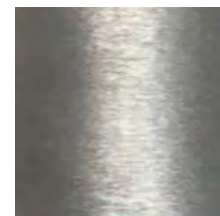
Silver Brushed  
NU052  
PE (PE/PVDF optional)



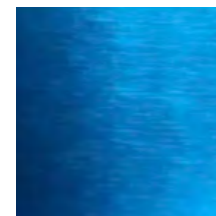
Gold Brushed  
NU053  
PE (PE/PVDF optional)



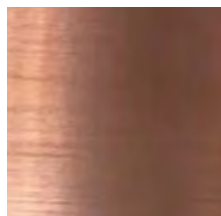
Hammerton Nature  
NU057  
Anodised (PVDF optional)



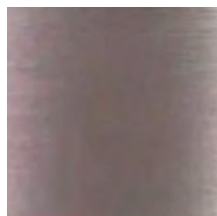
Copper Brushed  
NEW  
PVDF



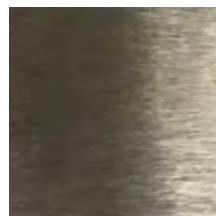
Copper Brushed  
NEW  
PVDF



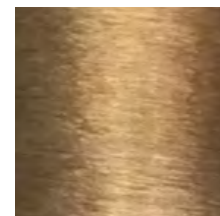
Copper Brushed  
NEW  
PVDF



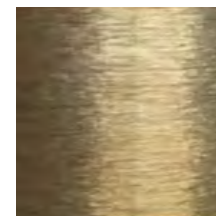
Copper Brushed  
NEW  
PVDF



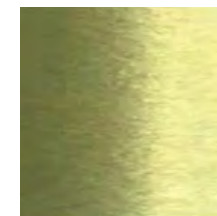
Copper Brushed  
NEW  
PVDF



Copper Brushed  
NEW  
PVDF



Copper Brushed  
NEW  
PVDF



Copper Brushed  
NEW  
PVDF

## SOLIDAL® Kynar® 500® Continuous Coating PVDF

**The most earth-friendly** way to apply coatings to metal

### THE PROCESS

The continuous coating process is always evolving to produce higher quality and lower environmental impact. Recent innovations include:

- No-rinse pre-treatment - many coil coating lines have been able to dramatically reduce water usage using this innovative technique.
- Curing ovens – major improvements to the most energy-intensive part of the continuous coating process now cure paint in seconds, using innovative induction, infrared, and near-infrared curing.
- VOC elimination - the coil coating process collects VOC's from solvents in paints and uses oxidizers to turn those compounds into fuel to cure the coating, destroying 98% of the VOCs.

### SUSTAINABILITY

#### **The Leading Edge Of Eco-Friendly**

Manufacturers of the most advanced green building materials and renewable energy products rely on continuous coating technology.

#### **For Green Building, There's No Comparison**

Unlike brick, cement, wood, and many other building materials, pre-painted pre-finished SOLIDAL® T3® and SOLIDAL® T4® can be recycled without loss of quality. Aluminum continually recover their original performance properties, even after multiple times of recycling, allowing them to be used again and again. In fact, about 95% of the pre-painted metal that is used in buildings are collected and recycled after they have served their purpose. By contrast, the performance characteristics of most non-metallic materials degrade after recycling, resulting in a loss of strength, durability and aesthetic appeal.

## How to Specify SOLIDAL® Kynar® 500® Continuous Coated PPG PVDF

Once you have chosen SOLIDAL® with Kynar® 500® Continuous Coated PPG PVDF, it's important to specify the correct product. We make specifying our cladding products and coatings easy, simply:

### Nominate your preferred substrate SOLIDAL® Thickness:

- SOLIDAL® T3® (3mm) NATA Certified AS1530.1 Solid Aluminium
- SOLIDAL® T4® (4mm) NATA Certified AS1530.1 Solid Aluminium

### Nominate your preferred fixing method:

- Prefabricated Cassette
- Tongue and Groove extrusion system (Smartfix®)
- Captive extrusion system (Smartfix®)
- Face Fixed Riveted or Screwed
- Curtain Wall
- Ventilated System

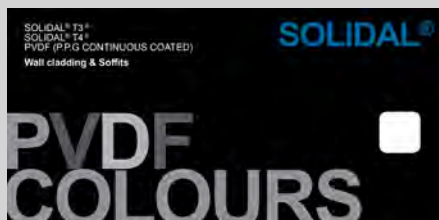
### Nominate your preferred Interpon product, e.g PVDF P.P.G Continuous Coated Kynar® 500®

### Nominate the color, finish and product code, e.g. NU018

### (OPTIONAL) Custom Fabrication SOLIDAL® Special / Custom

- Perforated SOLIDAL®
- Laser Cut SOLIDAL®
- Dimpled SOLIDAL®

ORDER SWATCH



Please contact SOLIDAL® Customer Care Team for additional specification support and advice. Visit [www.solidalmetal.com](http://www.solidalmetal.com) or contact us for more information.



# Technical Specifications

SOLIDAL® T3®  
SOLIDAL® T4®

	Panel Thickness (mm)	Available width (mm)	Length (mm)
<b>SOLIDAL® T3®</b>	3mm	1240mm, 1500mm, 2000mm	up to 7000mm
<b>SOLIDAL® T4®</b>	4mm	1240mm, 1500mm, 2000mm	up to 7000mm

## Physical Properties

MECHANICAL PROPERTIES	* 3000 Series SOLIDAL®	** 5000 Series SOLIDAL®
Brinell Hardness	45	67
Elastic Modulus	70GPa	68GPa 9.9 x 10 <sup>6</sup> psi
Elongation at Break	6.0%	8.0%
Fatigue Strength	68 MPa	110 MPa 15 x 10 <sup>3</sup> psi
Poisson's Ratio	0.33	0.33
Shear Modulus	26 GPa	26 GPa 3.7 x 10 <sup>6</sup> psi
Shear Strength	93 MPa	150 MPa 22 x 10 <sup>3</sup> psi
Tensile Strength: Ultimate	160 MPa	250 MPa 37 x 10 <sup>3</sup> psi
Tensile Strength: Yield (Proof)	125 MPa	190 MPa 28 x 10 <sup>3</sup> psi
THERMAL PROPERTIES		
Melting Onset (Solidus)	640 °C 1120 °F	610 °C 1120 °F
Specific Heat Capacity	900 J/kg-K 0.22 BTU/lb-°F	900 J/kg-K 0.22 BTU/lb-°F
Thermal Conductivity	180 W/m-K 100 BTU/h-ft-°F	140 W/m-K 80 BTU/h-ft-°F
Thermal Expansion	23µm/m-K	24µm/m-K
ELECTRICAL PROPERTIES		
Electrical Conductivity: Equal Volume	44% IACS	35% IACS
Electrical Conductivity: Equal Weight (Specific)	140%	120%

\* 3000 Series SOLIDAL® is ideal for Kynar® 500 PVDF continuous coating  
Visit [www.solidalmetal.com](http://www.solidalmetal.com) or contact us for more information

**SOLIDAL®**

**HEAD OFFICE**

9A Davis Road  
Wetherill Park, Sydney  
NSW 2164, Australia

**[www.solidalmetal.com](http://www.solidalmetal.com)**  
E: [info@solidalmetal.com](mailto:info@solidalmetal.com)  
T: +61 414885530

Po Box 1393  
Redfern 2016  
NSW, Australia

DISCLAIMER: SOLIDAL® has taken due care to prepare the enclosed literature to assist the end user.  
SOLIDAL® is not liable for any errors and accepts no liability for information which may be misleading or misinterpreted.

Copyright© SOLIDAL® All rights reserved.

