



DURAKOTE®
April 1st, 2009

DURAKOTE® STAINLESS STEEL

DESIGNED FOR RAINWATER PRODUCTS (GUTTERS, FASCIA, DOWNPIPES)

DESCRIPTION

DURAKOTE® STAINLESS prepainted steel is specifically designed for the Australian rainwater products environment. An extremely durable, high quality product with superior corrosion and heat resistance suited for very severe marine and industrial environments for use on gutters, fascia and downpipes.

STANDARDS

Substrate JIS G4305

Paint Coating – AS/NZS 2728 Type 4.

SPECIFICATION

Substrate: Stainless steel coil Grade 430. Manufactured to Japanese Standard JIS G 4305

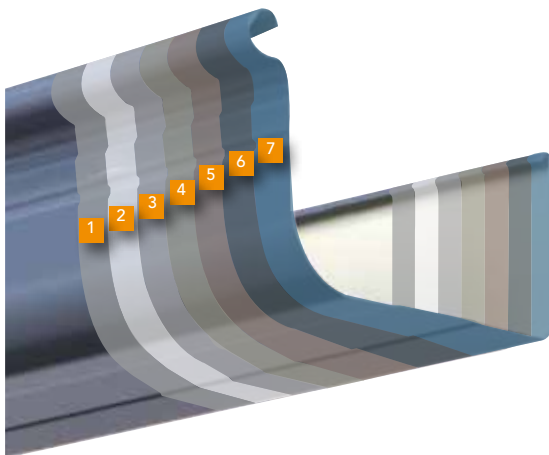
Pre-treatment: Corrosion resistant conversion coating

Primer: Corrosion Resistant Primer (Nominal 5µm) both sides

Finishing Coat: Durable exterior polyester grade paint coat (Nominal 20µm) AS/NZS 2728 Type 4

Backing Coat: Bass Grey. (Nominal 20µm)

Protective film: Should be removed from the product prior to installation. If product is exposed to sunlight/ or left uncovered outside it can increase adhesion of the protective film to the paint surface



- Backing Coat (Nominal 20µm)** 1
- Corrosion Resistant Primer 2
- Corrosion resistant Coating 3
- Stainless Steel Grade 430** 4
- Corrosion resistant Coating 5
- Corrosion Resistant Primer (Nominal 5µm both sides) 6
- Finish Coat (Nominal 20µm) 7

LINE TESTED PROPERTIES

| PROPERTY | TEST METHOD | MEASURED BY | RESULTS |
|----------------|--|----------------|-------------|
| Hardness | AS/NZS 1580 405.1 NCCA Tech.Bull. 4.2.5 | Pencil | B or harder |
| Adhesion | AS/NZS 2728 (App.E) NCCA Tech. Bull. 4.2.6 | Reverse Impact | ≥10 joules |
| | AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8 | T-Bend | Maximum 6T |
| Specular Gloss | AS/NZS 1580 602.2 ASTM D523 | 60° meter | 15-35% |

EXPECTED PRODUCT PERFORMANCE

Ace Gutters Pty Ltd, warrants that Ace gutter, downpipe and fascia manufactured from genuine DURAKOTE® STAINLESS pre-painted steel will have a life prior to perforation by natural weathering of 12 years from the date of installation.

ACE also warrants that the DURAKOTE® STAINLESS exterior paint system will not flake or peel for a period of 12 years from the date of installation.

| PROPERTY | TEST METHOD | MEASURED BY | RESULTS |
|-----------------------------|--|--|--|
| Resistance to colour change | ASTM G53 | QUV (2000 hours) | Δ E Hunterlab: Intermediate Colour: ≤1 unit |
| | ASTM D2244 | Natural well washed Exposure | Δ E Hunterlab: Light colour: ≤3 units Int. colour: ≤3.5 units Dark colour: ≤5 units |
| Resistance to chalking | ASTM G154 AS/NZS 1580 481.1.11 (Method B) | QUV (2000 hours) | Rating: ≤1 |
| | AS/NZS 1580 481.1.11 | Natural well washed | Chalk rating: ≤2 |
| Resistance to corrosion | ASTM B117 AS 2331.3.1 NCCA Tech. Bull. 5.4.6 | Salt Spray (2000 hours) | Blister density: ≤3 Blister size: ≤S2 Undercut from a score: ≤2mm No loss of adhesion |
| | DIN 50018 | Kesternich (SO ₂) (50 Cycles) | Edge creep: ≤1mm |
| Resistance to humidity | NCCA Tech. Bull. 5.4.5 | Cleveland (1000 hours) | Blister density: ≤3 Blister size: ≤S2 No loss of adhesion |
| Resistance to acids | ASTM D1 308 (3.1.1) | Exposure | No discolouration No blistering |
| Resistance to alkalis | ASTM D1308 | Exposure | No discolouration No blistering |
| Resistance to solvents | ASTM D1308 | Exposure | No discolouration No blistering |
| Adhesion | - | Natural well washed | No flaking or peeling |
| Resistance to heat | ASTM D2244 | Exposure 100°C continuous | Colour Change Δ E Hunterlab: ≤3 units |
| Flexibility | ASTM D4145-83 | T-bend | Maximum 5T (no cracking) |
| Resistance to abrasion | AS/NZS 1580 403.2 | Taber Abraser-100g | Typically 50mg |
| | AS/NZS 1580 403.1 | Scratch | Typically 2000g |
| | ASTM D968 | Falling Sand | 60 litres/25μ |