

## BARRIER COATINGS

### TECHNICAL BULLETIN CTB-7

Rev 4, November 2003

This issue supersedes all previous issues

BlueScope Steel Limited produces a wide range of prepainted steel product, which further enhances the corrosion resistance and aesthetic qualities of the traditionally produced metallic material. The combination of a sacrificial coating and factory prepared oven cured paint finish, offers both galvanic protection and a degree of barrier protection dependant upon the COLORBOND® prepainted steel grade selected.

Steel coils entering the organic coating lines may either be metallic coated or uncoated steel. The steel strip uncoils and passes through a cleaning stage where the strip is cleaned with an alkaline solution then hot water rinsed. This process ensures chemically clean strip being presented for roll-on pretreatment. As it progresses through the line, the strip can receive a uniform corrosion inhibitive primer coat which is oven cured. Finally, the primed strip enters the finish coating stage where the selected paint finishes are uniformly applied to both sides and oven cured before the strip is recoiled.

COLORBOND® steel sheet and coil product is ready for direct fabrication into the end

product without further finishing treatment by the customer.

Fabricating products from prepainted steel can assist manufacturers in eliminating pre-treatment and finish painting operations and related problems such as fume and effluent disposal, maintenance or renewal of expensive painting equipment.

The range of COLORBOND® steel (*colour, coating types and gloss levels*) has been developed for a wide variety of applications for both exterior and interior use. Topcoats may be applied on either one or both sides of steel coils in the same or different colours.

Standard fabrication techniques such as deep drawing, roll forming, stamping, spinning, and press brake forming are generally possible without damage or deterioration to the coating. In some fabricating techniques the paint coating acts as a lubricant and can measurably increase tool life. The factory applied coating system can offer increased corrosion performance compared to the substrate in unpainted form, depending upon the coating system choice.

The information and advice contained in this Bulletin is of a general nature only, and has not been prepared with your specific needs in mind. You should always obtain specialist advice to ensure that the materials, approach and techniques referred to in this Bulletin meet your specific requirements.

BlueScope Steel Limited makes no warranty as to the accuracy, completeness or reliability of any estimates, opinions or other information contained in this Bulletin, and to the maximum extent permitted by law, BlueScope Steel Limited disclaims all liability and responsibility for any loss or damage, direct or indirect, which may be suffered by any person acting in reliance on anything contained in or omitted from this document.

COLORBOND® is a registered trade mark of BlueScope Steel Limited.  
BlueScope is a trade mark of BlueScope Steel Limited.

*Please ensure you have the current Technical Bulletin as displayed at [www.bluescopesteel.com.au](http://www.bluescopesteel.com.au)*

#### BlueScope Steel

Copyright© 2003 BlueScope Steel Limited  
BlueScope Steel Limited ABN 16 000 011 058  
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625



AUSTRALIA	SYDNEY	Telephone: (02) 9795 6700
	MELBOURNE	Telephone: (03) 9586 2222
	BRISBANE	Telephone: (07) 3845 9300
	ADELAIDE	Telephone: (08) 8243 7333
	PERTH	Telephone: (08) 9330 0666

OVERSEAS	BlueScope Steel (Malaysia) Sdn Bhd	Telephone: (603) 3250 8333
	BlueScope Steel (Thailand) Limited	Telephone: (66 38) 685 710
	PT BlueScope Steel Indonesia	Telephone: (62 21) 570 7564
	BlueScope Steel Southern Africa (Pty) Limited	Telephone: (27 21) 555 4265