

BRADKEN

PRODUCT APPLICATIONS



Slurry pipe



Fabricated 'Y' fitting



Duaplate banjo box

Pipes & Bends

Bradken has over 30 years experience in producing chromium carbide overlay products for the mining and processing sectors. Over that time, Bradken has distinguished itself as a market leader, providing quality wear resistant products.

Bradken's Duaplate® and Vidaplate® chromium carbide overlay material can be fabricated into a wide range of pipes and ducts. Long after a normal pipe has worn out, Duaplate & Vidaplate pipes show little sign of wear.

The benefits of using Duaplate and Vidaplate:

- **Longer wear life:** Duaplate and Vidaplate pipes have been proven to last 3-5 times longer than Q & T steel pipe.
- **Reduced downtime:** Duaplate and Vidaplate require less maintenance. This leads to an increase in productivity.
- **Reliability:** Duaplate and Vidaplate pipes have superior toughness which provides protection from the impact of sharp objects.
- **Easy Attachment:** A flange is easily attached to Duaplate and Vidaplate pipes. A rubber seal between flange sections ensures that an airtight seal is maintained.
- **A versatile pipe:** Duaplate and Vidaplate pipes come in a wide variety of standard sizes, intersections, bends and fittings.
- **Flexibility:** Duaplate and Vidaplate pipes can be manufactured to meet individual customer requirements.
- **Adaptability:** Duaplate and Vidaplate are a proven wear resistant choice that are available in a wide range of grades and thickness to suit a diverse range of operating conditions.

Vidaplate® duaplate®

BRADKEN

PRODUCT APPLICATIONS



Pipes & Bends

The key advantages when considering using Bradken Duaplate and Vidaplate for your pipe, ducts and bends are the range of grades and our experience in tailoring a solution to suit your application. Duaplate and Vidaplate can be fabricated into 'T' fittings, 'Y' fittings, reducers, banjo boxes and any other custom piece that is required.

Duaplate and Vidaplate are typically produced with a mild steel backing, however, pipes and bends can be produced with a stainless steel backing (e.g. 316 or 253MA) if required by the service environment. With a range of grades and thicknesses, Duaplate and Vidaplate will provide a superior wear solution, whether your wear regime is determined by particle size, shape, temperature or corrosive environment.

Case Study

Cement plant pipework clearly demonstrates the superior performance of Duaplate and Vidaplate. A 2.5m diameter outlet duct & lobster back bend was fabricated using Duaplate D60 to replace existing mild steel components. Used to transfer raw cement meal to the kiln feed box, the D60 pipe lasted over 3 times longer than the original components.

Abrasive Properties

- Limestone, dust, clay and gases
- Moisture 18%
- Average particle size <1mm
- Velocity of 20m/s
- Temperature 100-150°C

Wear Life

Material	Grade	Life
Mild Steel	10mm	10 months
Duaplate D60	5 on 8	32 months*

(*still in service)

Standard Sizes	
Diameter (mm)	Overlay
150	Single
200	Single
250	Single
300	Single or double
350	Single or double
400	Single or double
450	Single or double
500	Single or double

Minimum diameter depends on grade.
Larger diameters are available.
Seams are hardfaced internally after structural welding.

Vidaplate® **duaplate**®

For more information contact Bradken at wpbsales@bradken.com.au

3 BKM SP MKT
Rev. 0
Issue date – August 2007

170 Railway Parade Bassendean WA 6054 Australia
Tel: 61 8 9449 8300 Fax: 61 8 9449 8335
Web: www.bradken.com.au