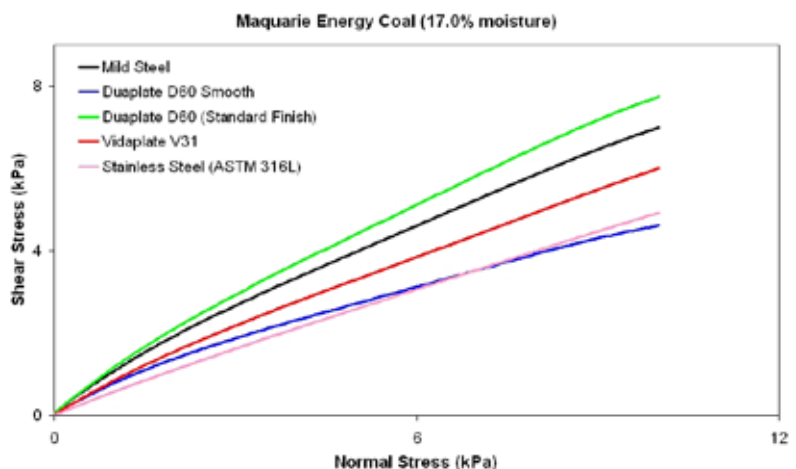


Duaplate® Smooth

Duaplate is a well established chromium carbide overlay plate, well known for its high abrasion and impact resistance. Duaplate is also available in smooth varieties to maximise material flow and reduce hang-up. Duaplate Smooth provides a low friction solution to your bulk handling problems, without the design or wear penalties.

The smooth surface of Duaplate Smooth is a result of using a flux during the overlay process. This smooth finish, along with a slightly modified carbide structure, attributes to Duaplate Smooth's low friction properties. Duaplate Smooth is best employed in situations where mass flow is critical and hang-up is a problem, such as in hoppers and load out bins.

Several independent laboratory tests have been conducted to compliment the successful service history of Duaplate Smooth. The tests emphasize the shear stress or friction generated when a force or normal stress is applied to a bulk material against a liner material. The lower the shear stress for a given normal stress, the less likely it will be for the bulk material to hang up on the particular liner material. The bulk materials used these tests are typically regarded as some of the worse in terms of their tendency to hang-up.



The Duaplate Smooth finish



Hopper lined with Duaplate Smooth



Duaplate Smooth

BRADKEN

PRODUCTS

Duaplate® Smooth



Duaplate Smooth coal conveyor feed chute

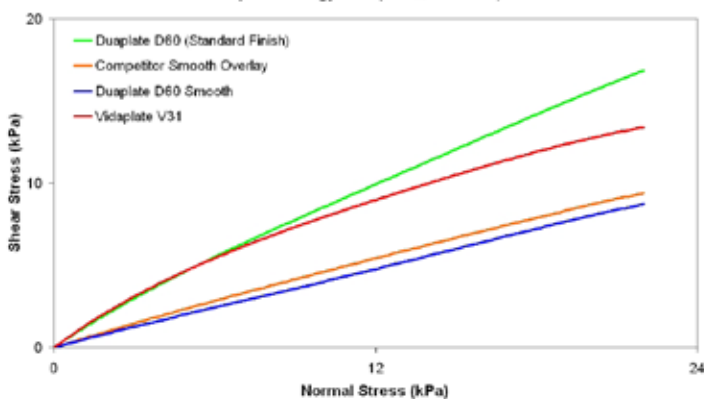


Duaplate - Standard (left), Smooth (Centre) and Polished (Right)

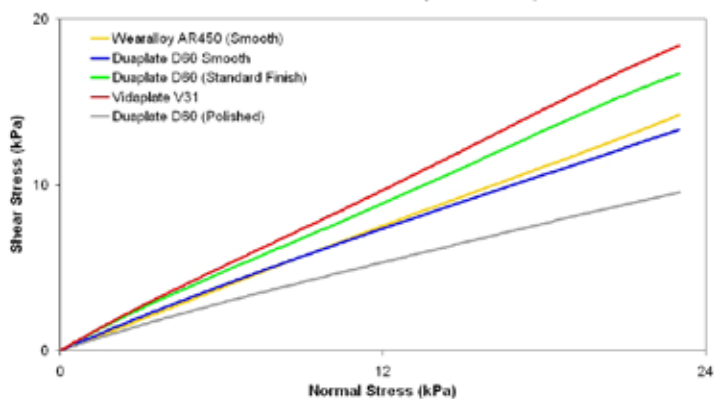
As with standard Duaplate, for optimum wear life it is preferable to align any Duaplate Smooth liner or fabrication with the weld beads perpendicular to the material flow. It should be noted that the orientation of the weld beads has a minimal effect on the low friction properties of Duaplate Smooth. Smooth varieties of the Duaplate D60 and D80 are available through the full range of the standard Duaplate overlay thicknesses. D90 Smooth is also available, but only as a 6mm overlay. These three smooth grades allow Bradken to offer a low friction solution to your material handling problems whether it is affected by impact or fine particle abrasion.

The graphs highlight the superior low friction properties Duaplate Smooth achieves over mild steel, other clad plate and competitor materials. In addition to Duaplate Smooth, Duaplate Polished, which has an even lower coefficient of friction, can be supplied for extreme bulk material hang-up problems, Duaplate Polished is subject to a minimum order quantity and some conditions apply. For more information on Duaplate in the standard, smooth or polished varieties, contact your local Wear Plate & Block sales representative.

Maquarie Energy Coal (15.9% moisture)



BHP NJV Iron Ore Blend OS3054 (6.8% moisture)



duasmooth

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

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