

DUROXITE®



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101 ELBOW DATASHEET BY
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DUROXITE® 100 ELBOWS FOR CONCRETE PUMPING

The abrasive effect of concrete changing direction in an elbow is no joke. Few materials stand up to such conditions.

Duroxite® 100 elbows will, for a really long time. The hardfacing layer of chromium carbides on the inside can take sliding wear from the ballast at high velocities.

One tested application showed no visible or measurable wear on the elbows after two years of use and more than 20,000 m³ (26,159 yd³) of pumped concrete.

The seamless elbows have longitudinal welding beads to reduce turbulence. The hardfacing carbide layer has a guaranteed wear resistance down to 75% of its thickness.

PROPERTIES	DUROXITE® 100 ELBOW
Inner diameter	120-133 mm (4.72-5.24")
Cross section	Circular
Typical surface hardness	59-62 HRC (675-750 HV)
Pressure testing without deformation	10 MPa (1.45 ksi)
Max. pressure test to burst	28.5 MPa (4.13 ksi)
Chromium carbide thickness	4-8 mm (0.157-0.315")
Bending angle	30°, 45°, 90°
Base material	S235 steel pipe
ASTM G65 procedure A max weight loss	0.18 g (0.000397 lb)



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