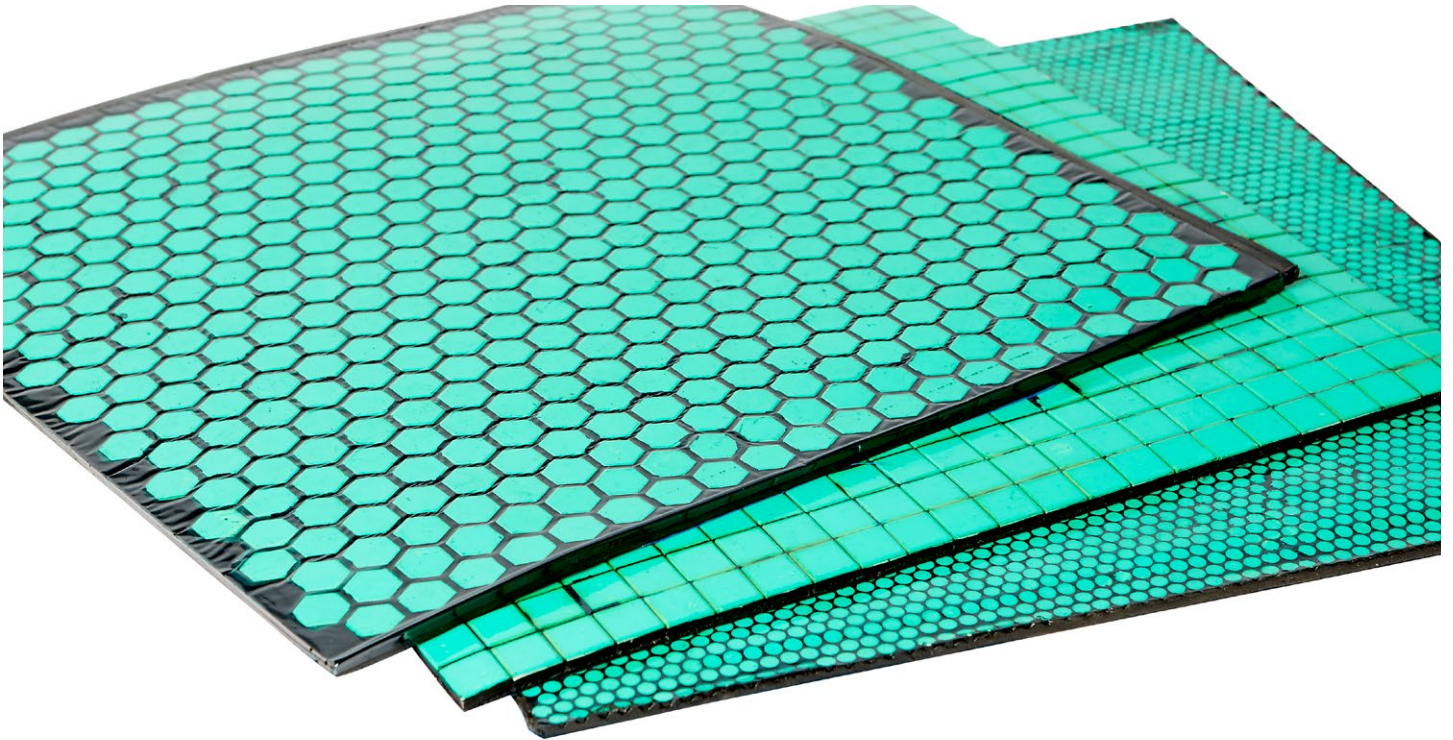


HOT VULCANISED WEAR PANELS



Elastotec has pioneered the development of Hot Vulcanised (HV) Ceramic Wear Panel Systems and the method of application.

The HV bonding process provides consistent 100% rubber tear bonds ensuring the longest possible service life.

Applications

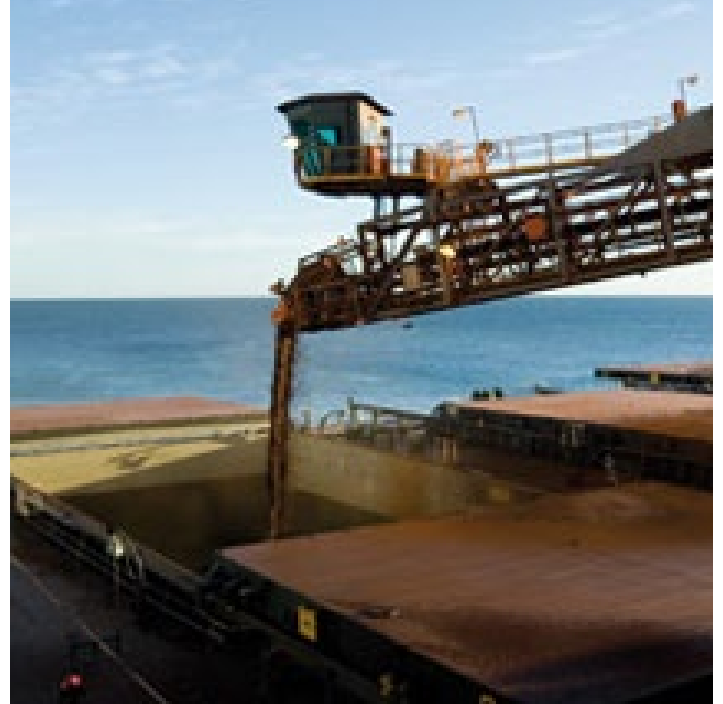
Elastotec Wear Panel Systems are ideal for a wide variety of mining, mineral processing and material handling applications for protection against extreme wear. Including typical examples such as

- Chutes
- Cyclones
- Launderers
- Pipes and tanks
- Conveyor transfer points
- Screen beams, underpans and components
- Vibratory feeders

Features & Benefits

FEATURES	BENEFITS
High quality abrasion resistant rubber	Excellent wear resistance
High hardness aluminium oxide tiles vickers hardness >900	Excellent wear resistance
Tiles bonded on all sides (except top surface)	Resists tile cracking and pull out
Fire resistant & antistatic (FRAS) compound available	Can be used in above or below ground applications
Hot vulcanised bonding layer	100% rubber tear bond to pulley
Elastotec developed application method	Reliable result
Supplied in square panels 500mm x 500mm	Easy to install

HOT VULCANISED WEAR PANELS



Cold Vulcanising vs Hot Vulcanising

	COLD VULCANISING	HOT VULCANISING
Adhesion level	Minimal Rubber Tear	100% Rubber Tear
Adhesion strength	> 9 N/mm	> 25 N/mm
On site application	YES	NO
Factory application	YES	YES
Stable rubber hardness	YES	YES
Joins	YES	NO
Curing	Room temperature	130-140°C
Bonding pressure	Rubber hammer	Autoclave 400-600 Kpa
Bond failure	Minimal rubber tear	100% rubber tear

HOT VULCANISED WEAR PANELS

Material Specifications

CERAMIC TILES	
Aluminium Oxide	92% MIN
Specific gravity	> 3.7
Vickers Hardness	> 900
Tensile strength (MPa)	20.0
Comp. Strength (MPa)	200
Flexural modulus (MPa)	32.0

Rubber Specifications

	STANDARD	FRAS
Polymer	NR/SBR blend	SBR/CR blend
Tensile strength (MPa) min	14.0	16.0
% Elongation min	400%	500%
Hardness (shore A)	60+/-5	60+/-5
Specific gravity	1.13+/-0.03	1.43+/-0.3
Abrasion resistance max vol. loss (DIN 53516)	90mm ³	200mm ³
FRAS – MDG 3608	N/A	PASS

Standard Dimensions

Reference No.	Tile Dimensions (mm)	Overall Thickness (mm)	Overall Dimensions (mm)	Tile Shape	Rubber	Duro (Shore A)
HVWP-ROUND-7-3-6-NR60	7 x 3	6	500 x 500	Round	NR	60
HVWP-SQUARE-10-10-3-6-NR60	10 x 10 x 3	6	500 x 500	Square	NR	60
HVWP-SQUARE-20-20-6-10-NR60	20 x 20 x 6	10	500 x 500	Square	NR	60
HVWP-HEX-20-6-10-NR60	20 x 6	10	500 x 500	Hexagonal	NR	60



Rokeby Technologies provides engineered solutions specialising in polymer and composite product technologies for the mining, mineral processing, materials handling and general industry.

Our focus is on innovative high-performance product technologies utilising composite materials such as rubber, ceramics, polyurethane and engineered plastics.

Rokeby Technologies are the exclusive distributor for Elastotec Wear Panel Systems for the regions of Australia, New Zealand, Papua New Guinea and New Caledonia.

Contact

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