



Optimum protection against wear.

Lining material for effective protection against damage and equipment failure.
For greater efficiency in the bulk material industry.





Rhino Hyde® – reliable protection against abrasion and wear.

Rhino Hyde® has been used for 40 years as a lining in chutes, troughs and silos to ensure long, smooth operation of machinery and equipment in the bulk materials industry. Applications range from glass recycling and grain handling through to the production of concentrated feed and many other applications where bulk materials are handled.

Rhino Hyde® applications:

- Lifts
- Silos, hoppers, chutes
- Conveyor pipes
- Folding boxes
- Segments
- Pipe bends
- Chain and screw conveyors
- Bunkers
- Mixers
- Vibration troughs and much more.

The lightweight and robust plastic effectively protects critical surfaces against wear and tear, dirt and damage. The material is up to 20 times more resistant to abrasion than steel.

Rhino Hyde® is available in various material qualities and can be ideally matched to the respective application as well as the associated requirements, such as bulk material grain size, flow velocity, drop height, temperature, humidity and many other factors.

- Lightweight, easy to process material
- Noise reduction (reduces noise emissions up to 30 dB compared to steel)
- Shock-absorbing and easy on the product
- Complies with EU 10/2011, FDA and REACH food regulations
- Low adhesion
- Static dissipation
- Highly resistant to acids and alkalis

Straightforward and precise processing – everything for your safety.

Rhino Hyde® – Customisable

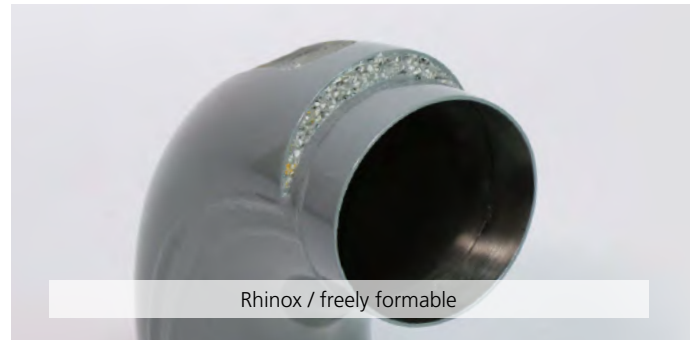
In addition to the outstanding material properties for wear protection, Rhino Hyde® offers very good processing properties. The durable plastic can be both mechanically as well as manually processed using a jigsaw and tin snips. The material can be formed into modules cut precisely to the millimetre, into pipe formats from 120 mm diameter or into right-angled linings.

Safe assembly

The products can be safely assembled in the system with screws, threaded bolts or as a bond with a two-component, high-performance adhesive. We recommend using cup or plate screws and M8 hexagon nuts for screw connections according to DIN 15237. Rhino Hyde® with cotton fabric backing, for example, can be bonded with Araldit AW 106 and hardener HV 953 U.

Safety on demand

Arthur Krüger also offers the linings with Rhino Hyde® as customised prefabricated parts. The manufacturing process precisely follows the dimensions and material requirements specified by the customer.



Rhinox – Repair and custom solutions

The two-component Rhinox lining material is available to round off Rhino Hyde®. The abrasion-resistant material can be formed as required and protects components where Rhino Hyde® cannot be used thanks to the material's rigidity or where items are transported at extremely high speeds. The repair compound Rhinox is ideal for repairing damage in chutes and troughs, etc.

The material is resistant to acids and alkalis and suitable for continuous use between -30°C and +120°C.

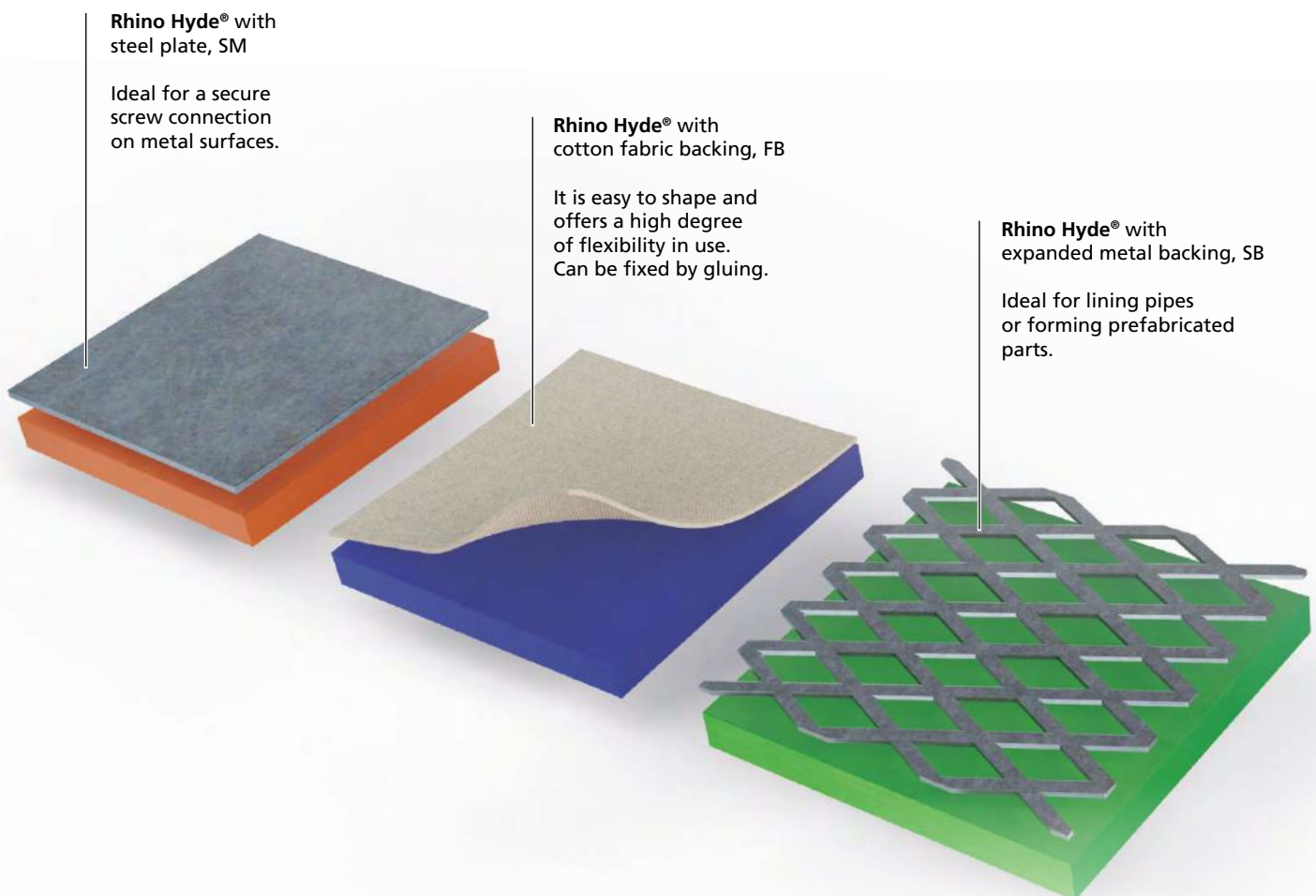


The Rhino Hyde® product range offers a wide variety of options for perfectly matched lining applications in different industries. They are available as a panel in 1.200 x 3.000 mm format, roll (standard) or prefabricated part according to your specific requirements.

Service temperature range: -30 °C to +120 °C
Friction coefficient: 0.15/0.25 (0.08 wet)
Hardness (Shore A): 85°

In addition to the blue Rhino Hyde® Standard (ST) material, the colour coding of all the other Rhino Hyde® qualities provides clear guidance about the product's key strengths.

Yellow > Maximum impact strength
Green > High temperature resistance
Red > Hydrolysis-resistant
Dark red > Fire-resistant
Orange > Maximum abrasion resistance










Rhino Hyde® works as a protective cover for plant components that are subject to high loads.

Safe – Light – Cost-effective

The complete Rhino Hyde® range – the perfect protection for every requirement.

Rhino Hyde® High Energy – HE + Maximum abrasion resistance + Ideal for fine particles	Rhino Hyde® Standard – ST + Ideal against abrasive wear	Rhino Hyde® Super Hyde – SH + Maximum impact strength + Ideal against impact abrasion
Rhino Hyde® Fire Fighter – FF + Self-extinguishing	RhinoHyde® Hydro – HY + Hydrolysis-resistant	Rhino Hyde® High Temperature – HE + High temperature resistance (up to 120°C)

Rhino Hyde® Type		Colour	Maximum temperature resistance (°C)	Conveying speed (m/sec.)	Reinforcement			
					Without backing	SB Expanded metal	SM Steel plate	FB Cotton fabric backing
					Thickness (mm) ⁽¹⁾			
HE	High Energy		80	25		8.0	8.0	
ST	Standard		80	20				6.5 ⁽²⁾
				20		8.0	8.0	
				20		12.5	12.5	
				20		20.0	20.0	
				20		25.0		
		20	8.0					
			80	20				5.0
SH	Super Hyde		80	25		12.5	12.5	
				25		20.0	20.0	
FF	Fire Fighter		80	20		8.0		
HY	Hydro		80	20		8.0		
HT	High Temperature		120	20		8.0		

⁽¹⁾ Other thicknesses available on request

⁽²⁾ On a roll (width: 1,200 mm, length: up to 30 m)

ARTHUR KRÜGER – Competence in plastics

For eight decades, the company based near Hamburg has stood for innovation, versatility and service strength in the complex field of plastics applications.

We operate both as a manufacturer and service provider, combining state-of-the-art technologies and technical expertise with the very best craftsmanship and the strengths of a family-run company.

For our customers, this translates into maximum flexibility, reliability, security and personal contact during all stages of the partnership.

Rhino Hyde® – place your trust
in reliable wear protection
and cost-effectiveness.

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ARTHUR KRÜGER
Technik in Kunststoff

