

Wear: The inside story

Your choice of wear plate has consequences for your business. Hardox® maximizes the wear performance of your equipment and machines, reducing workshop lead times and increasing the overall productivity of your operations.

Thanks to its consistent properties, Hardox's performance remains invariable across its lifetime. That also makes its service life very predictable, allowing you to rationalize your repair schedule.

With its combination of high hardness, high strength and good toughness, Hardox can be used in a variety of applications, from forest harvesting and ground preparation to asphaltting work.

What's the secret of Hardox's top performance? The production processes include the state-of-the-art metallurgical cleaning of steel and a unique hardening process, resulting in wear plates with outstanding hardness, toughness and workshop friendliness.

Expertise at your service

In addition to plate, SSAB Plate provides you with expertise. We share our knowledge with you through our Technical Managers, Conceptual Design Group™ and Wear Technology Group™.

The Conceptual Design Group consists of experts that can help optimize your product from a design perspective.

The Wear Technology Group is committed to developing the technical knowledge of wear. We offer you access to Ph.D's and experts with decades of experience in solving wear challenges. You can get applied support and information on wear-critical components.

Information about wear

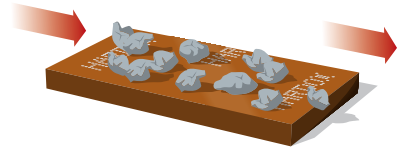
Wear comes in different forms and each has a different impact on the service life of your application.

The most common wear types are sliding wear and impact wear. Abrasive particles trapped in a narrow gap between two rigid surfaces causing squeezing wear is also a common wear type.

Each variety of rock is composed of a unique set of minerals and these also contribute to the specific type of abrasive wear damage.

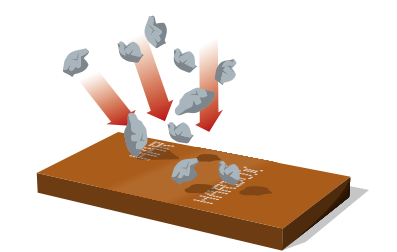
WearCalc software, available from our Technical Managers, describes and calculates the relative differences between materials. It allows you to predict relative wear life and compare different wear solutions.

Whatever your application and wear situation, Hardox is your ticket to outstanding wear performance.



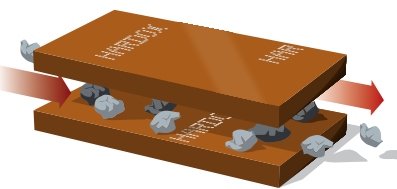
SLIDING

In sliding wear, abrasive bodies such as aggregate rocks are free to slide and roll. By selecting a harder Hardox grade, service life can be improved considerably.



IMPACT

In impact wear, the aggregate rocks hit the surface of the wear component at various angles. A harder grade of Hardox will deliver a longer service life here as well.



SQUEEZING

With squeezing wear, the improvement in service life of wear components is more difficult to quantify. However, an increased Hardox plate hardness often improves the service life significantly.



Damatech d.o.o

Certificated : Sd/aj z l V&obSdeBartner
Cesta Franceta Prešerna T 386 5 923 55 00
SI-4270 Jesenice, E sales@damatech.com
Slovenien W www.damatech.com



020-HARDOX ON SITE Roadbuilding - UK - V3 - 2009. Asaenem BBN. Osterbergs S. Sornlandnyck. Nykling.
© Photographer: Johan Dahlstr. Agency: Dreamstime.com. Rob Stegmann. Eneta. Graphics: Tomas Goring



HARDOX ON SITE Roadbuilding

A Part of Your Success



Breaking the ground for roadbuilding makes tough demands on machines and materials...



ROAD BUILDING CYCLE

1. Hydraulic hammer
2. Excavator bucket
3. Bucket
4. Excavator bucket
5. Crusher
6. Bucket
7. Bucket
8. Asphalt Plant
9. Tipper (asphalt)
10. Tipper (gravel)
11. Bulldozer
12. Motor Grader
13. Asphalt Roller
14. Asphalt Paver
15. Tipper (asphalt)
16. Asphalt milling machine



HYDRAULIC HAMMER
Hardox 400/450 in the housing of the hydraulic hammer exposed to wear from rocks.



EXCAVATOR BUCKET
Hardox 450/500/550 in the excavator bucket. Hardox may be used in the entire bucket or just in the cutting edge and sides depending on the wear situation.



BUCKET
Hardox 450/500/550 in the entire bucket or cutting edge and sides depending on the wear situation.



CHUTE
In the chute that leads into the crusher Hardox 500/550/600 is the obvious choice in the tough environment.



CRUSHER
Hardox 500/550 used as liner plates in the interior in areas with high wear.



ASPHALT PLANT
Hardox 450/500/550 as liner plates and in gravel chutes. Hardox 450/500 in the wings of the drum. Hardox 450/500 in the transport container from the drum to the truck delivery shaft.



TIPPER BODY
Hardox 450/500 in the body of the tippers and dumpers. Hardox is an outstanding wear fighter in these applications. Hardox also has great impact resistance, making it an excellent design solution.



BULLDOZER
Hardox 450/500/550 in the blade of the bulldozer.



MOTOR GRADER
Hardox 450/500/550 in the blades of the motor grader.



ASPHALT PAVER
Hardox 450/500/550 in the screed plates.