Abranet®

The solution to the dust problem
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Development going ahead in leaps and bounds. ABRANET is a major leap ahead within the sanding technology.

A revolutionary invention

HIGHER PROFITABILITY. Abranet is more efficient and economical to use than traditional abrasives.
Sanding dust is a major health problem in many sectors. Dust from fibre glass, carbon fibre, aluminium and hardwood, for example, usually contains harmful particles. Mirka offers a simple but clever solution to the dust problem – Abranet. Now workers’ lungs can be protected from dangerous sanding dust.

Abranet also makes it easier and more fun to work. Sanding without disturbing dust particles also provides better control over the work. Moreover, the final result will be better. You will get a cleaner surface and a better surface finish.

One of Abranet’s many advantages is that the sanding sheets or discs usually have a longer lifespan than traditional abrasives.

Companies using Abranet know that this translates into clear savings, i.e. better profitability and competitiveness.

Abranet use has spread like wildfire from branch to branch. At the same time, we have expanded the Abranet family with new products and accessories.

Now, everyone can take full advantage of Abranet’s revolutionary qualities.
MANUFACTURING. Abranet is the product to increase productivity.

For maximum benefits – use Abranet.

- Abranet maximises efficiency and minimises cost, for example when manufacturing cars, lorries, trucks, aeroplanes, trains, boats and wind turbines. Sub-suppliers manufacturing aluminium and plastic components also choose Abranet. There are many reasons for this:

  A modern production process requires a sanding material which is consistently good and reliable. Every detail of the process must be controlled, and sanding dust must be reduced to the minimum in order to prevent costly repair sanding. This becomes particularly relevant when the entire production costs are taken into consideration. The deciding factor depends on which sanding material provides the best value for money.

  Abranet fulfils all of these demanding requirements. Additionally, Abranet usually has a longer lifespan than traditional abrasives. How much longer depends on the area where the product is used. Some customers report that Abranet lasts twice as long, while others report that the product can last up to six times longer. Abranet can even have a lifespan 10–15 times longer than traditional abrasives within sectors where soft materials are sanded, e.g. when using certain putties and fillers which can easily clog and destroy the abrasives.

Products

**Abranet** (for dry sanding)
Sanding material: discs, sheets and rolls
Grit range: P 80–P 1000

**Abranet non-stearate**
- Works just as well without stearate
- For demanding painting processes (automotive industry)
Grit range: P 80–P 1000

**Abranet Soft** (for damp sanding)
Sanding material: discs, sheets
Grit range: P 1500–2500

**Polarshine polishing compound**
2 qualities for OEM’s
2 qualities for Marine industry
MOST ECONOMICAL. When producing different types of products, for example, cars, sailing boats, trains and wind turbines, Abranet is the most economical sanding solution overall.

LUNG PROTECTION. Thanks to Abranet, a worker’s lungs are now only exposed to a much smaller amount of dust. With a good dust extraction unit, special metals like zinc and aluminium or composites like carbon fibre and fibre glass can also be sanded.

SOFT MATERIALS. Abranet is ideal for sanding soft materials as the anti-clogging capability will prevent the abrasive from rapid wear / premature wear compared to using traditional abrasives.
Body damage repair work requires flexibility and efficiency from the bodyshop. Occasionally, the issue at hand is only a small scratch, at other times larger parts must be sanded, filled, painted and polished.

In this area, Abranet really reveals its true strengths. Aided by our sanding system for both hand- as well as machine sanding, an operator will smoothly and quickly manage all the work phases, from the sanding of coarse polyester fillers to the last final polishing. Dust-free effective sanding will be possible during the entire process. Even our hand sanding blocks are equipped with extraction.

Today, an increasing number of cars contain aluminium- and zinc coated components. Both aluminium and zinc require effective dust extraction. Even here, Abranet can offer the best solutions when it comes to work protection and final result.

The final sanding should be made using Abranet Soft, our new system for damp sanding. For ultimate finishing Abralon 4000 is recommended together with our new polishing solution Polarshine.

### Products

**Abranet (for dry sanding)**
- Sanding material: discs, sheets and rolls
- Grit range: P 80–P 1000

**Abranet Soft (for damp sanding)**
- Sanding material: discs, sheets
- Grit range: P 1500–2500
  - Whenever an even finer abrasive is needed, use Mirka’s Abralon 4000

**Polarshine polishing compound**
- 4 qualities for ART
ALUMINIUM. Metals, like aluminium, are becoming more common in modern cars. However, sanding aluminium requires effective dust extraction due to both production specific technical reasons and health reasons.

THE FINAL POLISH. With Abranet it is possible to reach goals quickly and efficiently: A repaired car feels like new. With the help of our new products, Abranet Soft, and the polishing solution, Polarshine, you will make cars shine brightly.

FAST AND EFFECTIVE. With Abranet dust-free effective sanding can be carried out during the entire process, from filler sanding to final polishing. This saves time and guarantees better quality.
Woodworking produces a lot of dust that can contain hazardous particles. The latest research shows that sanding harder wood is more dangerous than sanding softer wood.

When sanding furniture, kitchen and bathroom cupboards, windows and doors, it is important to have good dust extraction – both for health reasons as well as for the final result. Naturally, the best alternative is to change and begin using the Abranet system, which is virtually dust free. Abranet reduces the dust load from dangerous particles on lungs, as well as provides many other time and money savings.

A dust-free work environment ensures control of the sanding work. When sanding, other work phases can be made simultaneously in the same room. And of course there will be less tidying up afterwards!

Abranet is known for its long lifespan – which means that the abrasive doesn’t have to be changed as often as before. Another advantage is that Abranet maintains its aggressive properties much longer than traditional sanding materials.

**Products**

**Abranet**
Sandng material:
- discs, sheets and rolls
Grit range: P 80–P 1000

**For the construction industry**
Abranet Deco Sander
(sanding tool, telescopic tube and dust extraction hose)
Hand sanding block with dust extraction
Grit range: P 80–P 1000
Vacuum cleaner
BETTER CONTROL. Dust-free sanding enables better control over sanding work. Many different tasks can be made simultaneously in the same room. And there will be less tidying up afterwards.

HAZARDOUS DUST. Sanding dust can contain harmful particles. The latest research shows that sanding hard wood is more dangerous than sanding soft wood.

Abtranet Deco Sander

Now it is possible to sand indoors without having to cover furniture and decorations! For professional builders and tool hire companies, we have developed the Abtranet Deco Sander, a special tool for sanding walls and ceilings. The tool is attached to a telescopic tube with a range up to 2.3 metres. With the Abtranet Deco Sander, it is easy to sand putty joints on walls and ceilings. Since the sanding tool sucks towards the surface, no hard pressure is needed to achieve a successful result. The hand sanding block with dust extraction can be used to get to hard to reach edges and corners.
The secret behind Abranet

With Abranet, Mirka has succeeded with something where many others have previously failed—to develop a completely even sanding net. A sanding net with thousands of holes provides a phenomenal dust extraction. The maximum distance from each sanding particle to the closest dust extraction hole is 0.5 mm! Abranet’s clever construction provides many advantages. Because the dust is being continuously sucked away, sanding is virtually dust free. Tests have shown that the dust release from Abranet is only minuscule when compared to the dust released from traditional abrasives with dust extraction.

When the abrasive and the sanding surface are constantly kept dust free, the lifespan of the abrasive is extended. Since the abrasive maintains its aggressive properties over the entire surface, sanding becomes more even and efficient. The sanding result will also be better. Since it is always possible to see what is being sanded, there will be a completely different control over the work, meaning that over-sanding, for example, can be avoided.

Additionally, Abranet will solve many old dull problems, such as the formation of so-called “dust pills” and clogging. Since dust can no longer collect in lumps on the sanding discs to the same extent, there is no longer a danger that sanded dust will build up and create grooves on the sanding surface, or fill up the disc and so reduce its sanding capacity.

No wonder everyone chooses Abranet!

Try ABRANET and you will not regret it.
**Test Winner.** Laboratory tests show that Abranet has solved the dust problem. The amount of dust in the air when machine sanding with Abranet is 6,900 times less than when sanding using traditional abrasives without dust extraction.

When Abranet was compared to a traditional 6-hole sanding disc with dust extraction system, Abranet also proved itself to be completely superior. The dust concentration from Abranet was max. 0.15 mg/m³, while the corresponding figure for the traditional sanding disc was 1.6 mg/m³.

We advise users to follow the FEPA and UAMA recommendations regarding the protection equipment suitable for the method as well as the material being sanded. These recommendations should always be made after conducting a risk assessment at the place of work.

Tests also show that besides the air being much cleaner when sanding with Abranet, the surrounding surfaces, for example, are also much cleaner. This means considerable savings in cleaning costs.

**How Much Longer?** Abranet’s lifespan depends on the type of material being sanded. Generally, it seems as though the disc would last twice as long as traditional abrasives. However, in certain cases where a normal disc would become clogged easily, when sanding soft surfaces for example, Abranet can last up to 10 times longer. **When hand sanding with a sheet, Abranet is by far superior compared to competing products.**
**ABRANET** is a large family of sanding materials and accessories. And it’s growing all the time.

A growing family

- Today, the Abranet system is available for most branches. The complete Abranet sanding system consists of a vacuum system, sanding machines, backing pads and hand sanding block, as well as various types of sanding products. There are also polishing compounds for the automotive and marine industries. Special tools to sand walls and ceilings have been created for those working in the construction industry.

  Abranet can be used immediately, without taking on large additional investments, if a vacuum system and sanding machines are already in place. All that is needed for machine sanding are Abranet discs and a specially designed backing pad. For hand sanding Abranet sheets and our special hand sanding blocks are required. The Abranet system contains a special interface that is attached between the abrasive and the pad. It attaches the Abranet firmly to the sanding machine, and reduces the wear and tear on the pad.

  We can offer solutions to suit both larger and smaller production lines for those requiring a completely new system.
This is how you use Abranet!

## OEM: Marine

### Plug manufacturing
- Putty sanding: Abranet P 80–P 180
- Plug coat sanding: Abranet P 500–P 1000
  - Abranet Soft P 1500–2500

### Gel coats
- Dry sanding: Abranet P 180–P 1000
- Damp sanding: Abranet Soft P 1500–2500

## OEM: Car manufacturer

### On track
- Body-in-white: Abranet P 120–P 180
- Epoxy dipp coating: Abranet P 240–P 360
- Primer: Abranet P 400–P 800
  - Abranet Soft P 500–P 800 damp or dry
- Clear coat / Top coat: Abranet Soft 2500 damp

### Off track (hospital area)
- Body repair: Abranet P 600–P 1000
  - Abranet Soft P 500–2500 damp or dry

## Wood and construction industry

### Construction / Decorating
- Sanding of walls and ceilings: Abranet P 120–P 180

### Universal wood sanding
- Rough sanding: Abranet P 80–P 120
- Surface sanding: Abranet P 120–P 180
- Intermediate sanding: Abranet P 240–P 1000
- High gloss finish: Abranet Soft P 1500–2500

## ART: Body shops

- Paint stripping: Abranet P 80–P 120
- Putty sanding: Abranet P 80–P 180
- Primer sanding: Abranet P 320–P 600
  - Abranet Soft P 800–P 1000 damp or dry
- Clear coat / Top coat: Abranet Soft P 1000–2500 damp
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