

# Surface Preparation

## Painting, Coating & Repair

Brand Energy & Infrastructure Services (BRAND®) is a premier provider of surface preparation services, offering our clients more than 70 years of experience. BRAND's pool of highly skilled personnel consists of over 40,000 specialty crafts personnel across the world. Our training program ensures that we provide customers only the highest-skilled professionals, all of whom are supported by trained and certified inspectors. The BRAND team delivers labor hours utilizing our proven quality systems program.

We leverage our experience, along with an extraordinary track record to ensure

that all of our clients surface preparation requirements are met and their expectations exceeded. BRAND remains at the forefront of technological advancement with unique and innovative equipment and service solutions. Our advanced robotic blasting machines are environmentally friendly and feature ergonomic designs that provide for safer operator interaction.

### Surface Preparation Service Offerings

- › Mineral abrasive blasting
- › Robotic blasting
- › Water washing, water jetting and UHP
- › High frequency induction stripping
- › Other innovative surface preparation techniques such as laser cleaning, CO<sub>2</sub>/dry ice blasting, vacuum blasting
- › Assessment and program support



**more safety**  
**more productivity**

# Surface Preparation

## The BRAND® advantage

BRAND offer a range of surface preparation solutions with varying work method approaches according to the specialities on site.

This ranges from fine blast material such as glass bead for the removal of residues from highly sensitive equipment, to chilled iron and steel shot used mainly in areas where reclamation and re-use can take place.

BRAND also offer solutions for the preparation of repairs. It is used to encapsulate internal corrosion and act as a barrier against future through wall conditions for piping repairs.

**BRAND offers the following expert surface preparation services:**



## Robotic Blasting

Robotic blasting is the process of using of mechanical, remote controlled equipment in the delivery of abrasives or ultra high pressure water to the application surface being prepared. Typically the robotic equipment, which employs a hard abrasive, uses either steel shot or a mixture of steel shot and steel grit to clean and abrade the surface area. The abrasive is generally contained within the equipment and recycled for multiple uses. The most common uses for both robotic shot blast and the ultra high pressure units are on tanks and marine vessels which are comprised of large flat surfaces without many disturbances which would interfere with the movement of the robotic unit. Robotic blasting machines feature the latest technologies and designs and are much safer and environmentally responsible than traditional surface preparation methods.

## Water Washing, Water Jetting and UHP

These types of equipment are designed to deliver a stream of water under varying pressures and are employed to clean painted surfaces which are to be repainted or for the total removal of old coatings when the use of hard abrasives is not possible. For simple cleaning projects the equipment normally operates in the 100 to 250 bar range. For total removal projects the UHP equipment operates in the 2500 to 4000 bar range.

## Mineral Abrasive Blasting

Conventional blasting typically involves the delivery of a hard abrasive to the surface being prepared for painting. A variety of abrasives are utilized depending upon the specific application. Garnet, sand, coal slag, aluminum oxide and copper slag are a few of the types of minerals available for use. Abrasive is pushed through high pressure hoses and special nozzles normally under 6 to 7 bar pressure supplied by an air compressor to achieve the clean mechanically roughened profile needed to bond the coating to substrate.



## High Frequency Induction Stripping

High frequency induction stripping uses electromagnetic impulses to briefly heat the coating/substrate bond interface to a predetermined temperature (usually somewhere between 100 °C and 150 °C), neutralizing the adhesion. Although this technology is ideal for dust free removal of typical 1.5 mm to 3.0 mm thick glass fiber reinforced coatings, it has proven very effective at stripping much thicker linings, grouting and caulking (even over 25 mm thick). This process does not require the use of any abrasive or fluid media. Waste generated is kept to a minimum. Because there is no abrasive, shot, or water used, there is nothing to dispose of but a stack of clean, dry strips of the coating. Removal is extremely fast and efficient with production rates ranging from 250 – 500 m<sup>2</sup> per shift, per unit.

**more safety  
more productivity**

> best in class safety performance

> specialty team of ~40,000 People

> 30,000+ customers ... and growing

> ~340 locations in 25 Countries

> revenues of nearly ~\$5b

> assets & equipment worth ~\$4.2b

Why BrandSafway?

## Unique combination of expertise & resources

We are part of **BrandSafway**, a leading global provider of access, specialised services and forming & shoring solutions to the industrial, commercial and infrastructure end markets. With more than 340 branches all over the world, we provide support for ongoing maintenance as well as for refurbishment needs and new construction plans.

**As one strong team, we support our customers:**

- > **Brand Energy & Infrastructure Services** is one of the world's largest industrial services specialists;
- > **Brand Access Solutions** is the UK's largest full-service provider of scaffolding and access systems;
- > **Hünnebeck** stands for safe and highly efficient formwork, scaffolding and safety technology.



## Contact

### Belgium

Mannheimweg 1, Haven 242, 2030 Antwerpen  
+32 (0)3 770 89 91  
be@beis.com  
www.beis.com/be

### France

256 Allée de Fétan, 01600 TREVOUX  
+33 (0)4 74 08 90 50  
accueil@brandfrance.fr  
www.brandfrance.fr

### Germany

Rehhecke 80, 40885 Ratingen  
+49 21 02 937 – 0  
info\_de@beis.com  
www.beis.com/de

### India

1st Floor, Western Aqua, Plot Nos - 1,2,3 and  
4/Part, Survey No 8, Whitefield, Kondapur  
Hyderabad 500 084, Telangana  
+91 (0)40 45627988  
in@sbggroup.com  
www.brandsafway-india.in

### Netherlands

Rivium Quadrant 209,  
2909 LC Capelle aan den IJssel  
+31 (0)10 44 55 444  
nl@beis.com  
www.beis.com/nl

### Saudi Arabia

PO Box 4296, Dammam, 31952  
+966 (0)1 26917690  
SA@brandsafway.com  
www.sbggroup.com

### Romania

Căpușu Mare, nr. 310, 407145, județul Cluj  
+40 264 504 270  
info\_ro@huennebeck.com  
www.beis.com/ro

### United Arab Emirates

37656 Dubai, Techno Park  
+971 (0)4 8132000  
AE@brandsafway.com  
www.sbggroup.com

### United Kingdom

Suite 1, Ground Floor, Origin 3,  
Genesis Office Park, Europarc  
Grimsby, DN37 9TZ  
+44 (0) 844 335 8860  
ukinfo@beis.com  
www.beis.com/uk

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