



Polishing Plastic and Wood



## Finish First with Osborn

Osborn offers the best solutions for your mechanical surface treatment challenges. Our experts are highly trained to serve you with the optimum off-the-shelf or customized tools, when and where you need them. Unlike others, we help you optimize your process, meet the highest quality and safety requirements and reduce your costs.

**130 +  
years**  
of experience

### Local Inventories

Osborn serves 120 countries around the world. North American, European, and Asian manufacturing assures product availability and prompt delivery.

### High Performance

Finest quality cloths and construction techniques for buffing solutions. Superior buff treatments for repeatability and performance.



# Unique and Reputable Capabilities

## **Honest experts providing trusted solutions.**

Since 1887, we have grown to become the world's largest surface treatment and finishing provider. We're dedicated to offering the very best – a standard to which we hold ourselves and the aspiration we reserve for our diverse customer base. Osborn helps you Finish. First

## **Products for every application.**

Osborn has the broadest selection of buffs and compounds in the industry. Osborn will develop custom solutions for particular applications when standard products cannot meet the demands

## **Continued innovation.**

Product development focused upon customer applications. This applies to new products, continuous improvement, and process control.

## **Leading combination.**

The combination of long lasting Osborn buffs and economical compounds provide excellent results and fewer rejects. Our liquid compounds are the most stable in the business due to unique methods of manufacturing. Our compounds are made using the highest quality minerals, sized within a very limited range, to ensure no unexpected lines or scratches on a given surface. They adhere perfectly to Osborn buffs for a clean and economical process. Let our experts show you how to achieve the lowest cost per part!

# The Right Solution for Every Application and Every Workpiece

Wood is seldom polished in its raw state, instead it is coated with various types of lacquer, oil or water based, acrylic, nitro, polyester or polyurethane. This places it in a similar category to polishing plastic. A field in which OSBORN has a lot of experience.

OSBORN also has products to polish items made of natural products like wood, amber, ivory or mammoth and horn.



### Finest Quality C

A range of soft to hard cloths to the exact Osborn s



### Consistency Eve

All cloths used by Osborn are quality control procedures to same quality every time (part robotic operations run



### Highest Quality

Tightest standards and controls for compound formulations providing consistency and repeatability.



### Cloths

are manufactured to meet the highest specification.



### Perfect Balance

Osborn buffs are balanced for perfect concentricity.



### Designed for All Applications

Osborn perfectly attuned buffs and compounds for manual and automatic operations.



### Every Time

are subject to stringent quality control to ensure exactly the same performance every time (operating 24/7).



### Available in Multiple Sizes

Osborn buffs are available in metric and imperial sizes.

# Trusted Solutions for Polishing Wood and Plastic

There is no one size fits all, Osborn prides itself on recommending the best, most efficient solution for every application. Recommendations on these pages are just examples. Our experts are happy to advise you.



## Liquid Polishing Compounds

Osborn liquid compounds can be dispensed through a central system or with pressure pots. They are suitable for both high and low pressure spray guns.

		Characteristics	Use after grit size	Fat	Cut	Colour
OSBORN 8646	light green	Highly abrasive and clean (good for seams)		3	8	3
Langsol 7300-5	white	High cut following grit 600, very economical	600	7	5	5
UNIPOL VS 700/2	white	Good cut and some gloss	600	5	4	6
Langsol 7500/10	grey	Good polishing compound (after grit 800)	800	7	3	7
Langsol TP100D	white	Colouring compound		7	2	8

Scale from 1 = low to 10 = high

## Unipol Acrylic polish

Practical all-rounder for household, and leisure.

Easy handling: Pre-sand deeper scratches with fine sandpaper, apply paste and rub in with a damp sponge, polish and clean with a dry and soft cloth.

Two sizes available: 1000ml tin or 125ml tube





## Solid Polishing Compounds

Osborn has a complete range of solid compounds for manual polishing. Most types can also be supplied as sized bars for robotic applications.

Solid compounds			Use after grit size	Fat	Cut	Colour
Langsol 2.292	brown	Dry Cut and Colour compound		4	6	3
Unipol G68	white	High cut some colouring on PuR	600	5	4	5
Unipol G65	black, white or red	Good polishing compound on PE	800	4	3	6
Langsol 9216	beige	Colouring compound with good gloss	800	3	2	7
UNIPOL SA175	lemon	Top colouring compound		2	1	9
UNIPOL Gold	deep yellow	High end colouring compound with dark gloss		1	1	10

Scale from 1 = low to 10 = high

# Cloth Buffs

In the wood polishing industry the emphasis is on lighter cloths and in particular those that have been raised and/or bleached for additional softness. These types form part of the extensive Osborn range.



## Waved Cloth Buff

The most resilient Osborn cloth buff. The regular waves fixed around a core, offer stability and a long service life. Despite the high density of the material, the construction still offers a cooling effect. Waved buffs are the tool of choice when there is little or no possibility of oscillation.

Waved Cloth Buffs in soft raised cloths like MO5, used together with Langsol TP100D colouring compound are ideal for polishing flat wood parts like kitchen fronts.



## Pleated Cloth Buff

The flat, regular pleats offer an excellent surface for retention of Osborn liquid and solid compounds. The hardness and flexibility of this buff depends on whether a standard cloth or a raised cloth is selected, this plus the choice of Osborn compound determines the polishing results.

Pleated Cloth Buffs are suitable for robotic operations and also for manual polishing. They are an excellent tool to polish the narrow radius of veneers, used together with the solid compounds Unipol G65 or G68. Pleated Cloth Buffs are available in diameters up to 1500mm.



## Pleated Cloth Z Buff

The most flexible tool in the range. Individual layers of finely pleated cloth adapt to the contours of any part.

Applications can be found in the furniture industry and polishing plastic writing instruments usually in combination with liquid colouring compound Langsol TP100D or with the top solid compound Unipol Gold.

## Airflow Cloth Buff & ER Cloth Buff



**Airflow Cloth Buff:** The standard ventilated buff, suitable for almost every step in the polishing process. Various qualities of grey cloth can be selected depending on the results required. The irregular folds fixed to a metal clinch ring, form a flexible and economical buff. Buffs can be used individually or mounted on a wide shaft, depending on the equipment available.

Soft cloths like 202 or 101A are used for the first step of the polishing process with compounds Langsol 7300-5 or Unipol VS700/2.

The finishing process will be with a raised cloth like MO5 or 206SG and Langsol 7500-10 or Langsol TP100D.

Airflow Mini Cloth Buffs in diameters of just 100mm are available, a perfect finishing tool.



**ER Cloth Buff:** In addition to the advantages of a ventilated buff, the metal clinch ring is hidden within the folds of the material and secured with a row of stitching, ensuring the metal does not touch the shaft.

## Cloth Mop



Discs of material are layered and stitched to a required width. Layers are arranged such that any fraying is minimal. By varying the grade of cloth and the stitching, different hardness's can be determined.

Cloth mops are often used for robotic and manual finishing processes on car components and other parts with uneven surfaces. In this case, solid compounds are used either in the form of sized bars for robots or smaller hand size bars. Cloth Mops are available in diameters up to 1500mm.

## Cloth Types

Allow our experts to advise you on the most suitable cloth types for your specific polishing process.

Type	Standard cloths	Process
202	soft - medium cloth balanced	Polishing
215	soft - medium cloth	Polishing
101A	soft, standard cloth	Finishing
101B	soft, open end cloth	Finishing
Standard raised cloths (molton)		
206SG	Bleached white double raised (softer lacquers)	Colouring
M310	Bleached white double raised (harder lacquers)	Colouring
MO5	standard double raised	Colouring
MO4	standard one side raised	Colouring
FLANELA	economical raised cloth	Colouring

# Sisal Cord and Tampico Fibre Buffs

Sisal Cord and Tampico Fibre are both natural products with the ideal properties to be used for dusting or for spreading wax, glue or stainer.



## Airflow Sisal Cord Buff

An Airflow Sisal Cord Buff is an extremely flexible tool, with individual plaited cords able to adapt to irregular surfaces.

Sisal Cord buffs can be used to spread varnish or wax over a surface. The sisal cord rope, ensures that any coating penetrates the surface of the wood, to achieve a smooth and uniform surface.



## Roller Brush Tampico

Natural Tampico fibres are available as spiral rollers in various widths. The soft fibres make this a highly flexible tool, useful on profiled surfaces.

The tampico fibres remove dust and other debris on the surface without creating static.



## Pressed Brush Tampico

For a very compact roller, Tampico fibre is pressed in to a core. This brush is available in various widths and is ideal to remove dust and other debris from narrow angles.

Pressed Tampico Brushes may also be used to spread coating or to aid in the application of stainer on narrow or angled parts.

Type		Characteristics	Grade
Sisal Cord	Type 32	two cords twisted	light
	Type 48	eight cords braided	heavy

# Abrasive Non wovens

Abrasive non wovens consist of tangled nylon and/or polyester web with different types of abrasive grit particles resin bonded to the fibres. The material has an open and flexible structure, as it wears, new abrasive is exposed to create a uniform and consistent finish, whether on a flat or slightly profiled surface. Abrasive grit particles are usually Silicon Carbide or Aluminium Oxide.



## LIPPROX® Wheel

Non woven abrasive web is wound around a core and specially treated, resulting in a consistent hardness and level of abrasion over the life of the product. An arrow indicates the direction in which the Lipprox® Wheels must be used. Lipprox® convolute wheels are suitable for fine sanding of MDF or plain wood moulding after milling and after veneering.



## LIPPRITE® Wheel

Non woven abrasive flaps are bonded radially to a phenolic tube. Hardness can be varied by increasing or decreasing the number of flaps. The three-dimensional open web ensures a self-cleaning action, for easy removal of surface contamination. Lipprite® Wheels are extremely versatile for denibbing of veneered profiles.



## Rolls, Discs and Handpads

For manual operations, Osborn offers a selection of rolls that can be cut to width as required. Alternatively, stamped discs and standard hand-pads are available.

## Abrasive Non Woven Types

OSBORN		FEPA
Type	Grade	Norm
A2	A Coarse	AL2O3 80
A4	A Medium	AL2O3 120
A6	A Fine	AL2O3 180
A7	A Very Fine	AL2O3 240/320
S4	S Medium	SiC 120
S6	S Fine	SiC 180
S7	S Very Fine	SiC 240-320
S8	S Super Fine	SiC 500
S9	S Ultra Fine	SiC 800

# Accessories

Metal Centreplates, Nylon and Aluminium accessories can be used to reduce the inside diameter of Buffs.



## Centreplates

Centreplates with ventilation holes are required to reduce the inside diameter of buffs to a bore size that suits the shaft on to which they are to be mounted. Metal centreplates are re-usable.



## Interchangeable Metal Adapters

Small centreplates are specifically to reduce the buff inside diameter of 31.75 mm to a smaller size.



## Nylon Centreplates and Spacer

Nylon centreplates are used to reduce the inside diameter of the buff, they can also be supplied as a combination of centreplate and spacer for quick and efficient mounting.



## Mandrill

Mandrills in 6 mm are available to clamp polishing or satin finishing buffs with an inside diameter of 10 mm to 100 mm. Parts can then be used on a power drill. Mandrills are intended for repeated use.

# The Right Combination for Each Step of the Process

Osborn knows that every set-up is different, whether finishing in one step or more, Osborn tools and compounds complement each other throughout the process.

## Wooden Veneers (coated with PE or PuR or PMMA)

Surface Preparation		Polishing	Colouring	Super-Finishing
Belts		Pleated Cloth Buff	Pleated Cloth Buff	Cloth Mop or Loose Discs
Belts		Cloth Buff	Cloth Buff	
Belts		Cloth Mop	Cloth Mop or Loose Discs	
Belts		Waved Cloth Buff		
Belts	liquid	Langsol 7300-5	Langsol 7500-10	
Belts	liquid	UNIPOL VS 700-2	Langsol TP100 D	
Belts	solid	Unipol G68 (PuR)	Langsol 9216	Unipol Gold
Belts	solid	Unipol G65 (PE)	UNIPOL SA175	

## Household Products (toilet seats, shower parts)

Polishing	Colouring & Super-Finishing
Pleated Cloth Buff	Pleated Cloth Buff
Langsol 7300-5	Langsol TP100 D
Unipol G68	Unipol G65

## Injected Plastic Parts (subsequent plating or painting)

Polishing & Colouring
Cloth Buff
Unipol 8646

# Recommended Cutting Speeds

Material	Fine sanding prior/after veneering	Polishing	Colouring
Wood-Plastics	8 - 20 m/s	10 - 28 m/s	10 - 28 m/s



[osborn.com](http://osborn.com)