



SHRINK-TO-FIT COVERS  
& INDUSTRIAL SHRINKWRAP



## INDUSTRIAL SHRINKWRAP

Tufcoat industrial shrink wrap is a strong and durable plastic film which is heat shrunk to create a 'drum tight' and tear resistant covering that protects products during road transport and storage. Tufcoat manufactures a range of films up to 14m wide to ensure that even the largest product can be covered in a single sheet.

Because Tufcoat shrinks tight it overcomes a key problem with conventional covers such as tarpaulins which tend to flap and detach in high winds. Because Tufcoat is a 'use once and recycle' product it eliminates the problem of maintaining and returning re-usable covers.

Despite being a high performance product, Tufcoat is a cost effective solution. In addition, because sheets of Tufcoat may be joined together by heat welding, there is no limit to the size or shape of product that can be covered, and it looks great too!

## COMPETITIVE ANALYSIS

Tufcoat:		Tarpaulin:
<b>Material</b>	Construction grade polythene	Woven polyethylene
<b>Roll size</b>	Up to 14m wide x 50m long	Up to 10m wide x 10m long
<b>Sq. M</b>	Up to 700 m <sup>2</sup>	Up to 100 m <sup>2</sup>
<b>Site Damage</b>	Repairable on site	Not easily repairable
<b>Failures</b>	Rare	Frequent
<b>Covering</b>	100%	Unreliable, limited use
<b>Installation</b>	Continuously heat welded around perimeter of object	Tied at intervals through grommets in tarpaulin



## TUFCOAT FOR STORAGE

All Tufcoat films contain added ultra violet inhibitors (UVI) to protect wrapped goods against UV damage when stored outside for long periods. Other additives prevent the film from becoming brittle at low temperatures. Where goods will be wrapped for long periods of time, it is good practice to enable any trapped moisture to escape. Where voids exist underneath the cover, then the inclusion of a cloth bag containing a desiccant is very effective. Alternatively, self adhesive air vents ensure a cross flow of air beneath the cover.

## TUFCOAT FOR TRANSPORT

Using a heavy duty Tufcoat industrial grade shrink wrap results in a moulded covering, 'as tight as a drum skin' which provides peace of mind that the product will remain protected in all conditions. Although very sharp edges may need some protection before wrapping, because the shrink wrap fits so tightly the requirement for padding is minimised. Where goods may be subject to customs inspection, the addition of a zipped access hatch may be useful.

## TUFCOAT FOR CONSTRUCTION

Tufcoat scaffold wrap is a strong and durable plastic scaffold cladding which is heat shrunk to create a 'drum tight' and tear resistant covering over roofs and façades of any size or shape scaffold structure. Because sheets of Tufcoat are joined together by heat welding. Tufcoat creates a continuous skin around the scaffold structure without the holes or gaps typical of traditional sheeting. This makes Tufcoat highly effective for applications where a high level of containment or weather protection is required.

# THE INDUSTRIAL SHRINK WRAP PROCESS

**Step 1** – To begin, 19mm strapping is run tightly around the bottom of the product to create a 'perimeter band'.



**Step 2** – The roll of shrink wrap is placed on a stand so that it can be easily unrolled. The shrink wrap is then pulled over the product, cut from the roll and unfolded.



**Step 3** – A hand held hot air gun is used to heat weld the shrink wrap film around the perimeter band. This is accomplished by flipping the wrap around the strapping and applying heat to form a 'weld'.



**Step 4** – Once the perimeter band has been 'welded' and any pleats sealed, the entire cover may be shrunk. Begin at the bottom and shrink upward using strokes similar to spray-painting.



**Step 5** – Once the cover has been shrunk, use adhesive tape to install zipped access door and apply self adhesive air vents if required.



**Step 6** – The finished job.

## TRAINING

A detailed step by step shrink wrapping guide is available free of charge when you purchase a Tufcoat 'start up kit'. Our experience has shown that with this guide and a little practice, the shrink wrapping skills are easily learnt. However, 'on site' training days can be arranged if required.

### A typical training session includes;

- Equipment familiarisation setting up and disconnecting the heatgun, hose and regulator.
- Safety – Personal, equipment.
- Instruction and practice of key shrink wrapping skills – heat welding, shrinking, repairing a hole.





## WHY TUFCOAT?

As an ISO9001 accredited company we aim to ensure customer satisfaction. Our quality systems are independently audited by Lloyds Register Quality Assurance.

From our warehouses in the UK and Holland, we specialise in supplying shrinkwrap materials, accessories and equipment throughout Europe.

Tufcoat shrink wrap is specially formulated with additives to prevent degradation by UV or brittling in cold weather. Each production run is tested for consistency of thickness and shrinkability to ensure that the quality of our products is always maintained. Our flame retardant films are classified to ISO EN 13501 with a level of fire resistance that gives it approval by European building regulations for permanent installations.

### TUFCOAT STANDARD FILM SIZES:

Size ( W x L):	Code:
5m x 70m	BC01
6m x 60m	BC12
8m x 50m	BC02
10m x 40m	BC13
12m x 30m	BC03
12m x 50m	BC09
14m x 50m	BC07



# MATERIALS & EQUIPMENT



**Heat Gun** Powered by propane gas, the heat gun is designed to give a tight, consistent finish to the shrink wrap covering. This tool is very reliable and is supplied with a regulator and 8m hose. We also supply the Ripack 2200 heat gun which has a range of extensions available to allow an operator to safely reach up to 2m. A heat gun extension is essential for shrinkwrapping larger products.



**Industrial Grade Shrink Wrap Roll** Choose from 5m, 6m, 8m, 10m, 12m or 14m widths and a range of lengths up to 70m. Films range from 190 microns to 300 microns thick, with added UVI and EVA.



**Strapping Reel** 600m x 19mm reel. Used to form the 'perimeter band' which is a more robust alternative to taping shrink wrap direct to the hull. Strapping is also used to form a support structure, where required, under shrink wrap covers. Refer to the Tufcoat process and safety guide for alternative shrink wrapping techniques.



**Patch Tape Rolls** 100mm wide, high tack adhesive, waterproof. Used for repairing small holes and holding seams and large patches in position. For smaller boats, tape can also be used for securing the shrink wrap to the hull of the boat rather than using a perimeter band.



**Safety Gloves** Essential personal protection equipment when shrink wrapping. Safety gloves are used when using the heat tool, particularly when creating welds and shrinking the cover.

**Safety Knives** Designed to safely cut shrink film without scratching the product.



**Gas Cylinder Trolley** Using a trolley is safer, less tiring and allows shrink wrapping jobs to be completed quickly. Holds cylinders up to 47Kg.

**Mobile Roll Stand / Dispenser** The roll stand consists of a spindle which is passed through the centre of a shrink wrap roll which sits on a wheeled frame. It is used to move rolls around the work site and store rolls when not in use. Using a dispenser also allows the wrap to be pulled easily over the product and prevents the film picking up dusty debris from the ground. Easily disassembled for mobile shrink wrapping operations.

**Strapping Dispenser** The strapping dispenser keeps strapping clean whilst allowing it to be quickly unwound without knots or tangles.



**Air Vent** During long term storage vents are used to help eliminate moisture and condensation under a shrink wrap cover by allowing a cross flow of air throughout the cover.



**Zipped Access Door** These are taped on to the finished shrink wrap cover to enable access to the boat. Three heights are available 0.91m (36"), 1.22m (48") and 1.83m (72"). All are 0.76m wide (30").



# DATASHEET: TUFCOAT INDUSTRIAL SHRINK WRAP

Tufcoat scaffold sheeting is an Construction grade LDPE film used for applications in harsh environments. Tufcoat is formulated with added UVI, (ultra violet inhibitors), which prevents the film breaking down under sunlight for up to one year and EVA, which prevents the film from becoming brittle at low temperatures.

In shrink wrapping applications, Tufcoat is heat-applied to a product to create a taut, bonded, protective cover.

Characteristic:	Properties:
Thickness	190mm ( $\pm$ 10%)
Roll Size (opened out)	5m, 6m, 8m, 10m, 12m
Roll Size (folded)	1.6m x 30cm
Flame retardant	EN 13501-1:2002 Euroclass B
Abrasion resistance/toughness	Excellent
Blow-up Ratio (md/cd)	45% – 60% / 30% – 40%
Dart impact	850 g
Puncture resistance	Excellent
Elmendorf Tear (md/cd)	600 / 1100
Tear resistance	Excellent
Elongation	600% / 700%
Melt index	0.25
Melt temperature	120°C – 135°C
Opacity	Good (white/yellow)
Shrinkability / sealability	Excellent / excellent
Shrink temperature	70°C – 105°C
Tensile strength (md/cd)	245kg/m <sup>2</sup> / 245kg/m <sup>2</sup>
Weather resistance	Good to excellent



## TUFCOAT FLAME RETARDANT

Tufcoat flame retardant shrink wrap is classified to EN 13501-1:2002 Euroclass B. This means it is compliant with building regulation and may be used for permanent building installation if required. Tufcoat is the only shrink wrap cladding system to be tested to this European standard which will supercede national standards over the next few years.

## RECYCLING

Shrink wrap is easy to remove. Because shrink wrap will only stick to itself and not the product being protected, the cover can simply be cut off, however, it is good practice to use a safety knife so that the product is not accidentally damaged.

Although Tufcoat scaffold cladding is an oil based product, its carbon impact is small as it is 100% recyclable. After it has been removed, it is highly valued by recycling companies due to its purity and subsequently gets turned into plastic products like drain-pipes – there really is no excuse for it ending up in landfill sites!

*Statements, technical information and recommendations contained herein are based on production data with properties, quoted being typical but intended only as a guide. They do not constitute a product specification nor are they to be construed in any manner as warranties expressed or implied. The User shall determine the suitability of the product for its intended use and the User assumes all risk and liability whatsoever in connection therewith.*



## SHRINK-TO-FIT CUSTOM COVERS

Tufcoat's shrink-to-fit custom covers are a unique alternative to shrinkwrap.

Tailor made for your specific product, they fit like a conventional cover yet shrink tight like shrinkwrap. Since the covers are custom fit, there is less taping, tucking and folding than there would be with conventional shrink wrap.

Tufcoat custom covers are manufactured from 'Transhield'. This material consists of a soft 'felt-like' inner to protect paintwork to class A automotive standards, whilst the shrink wrap outer keeps the weather at bay.

Tufcoat custom covers can even be specified with patented VCI, (Vapour Corrosion Inhibitor), which protects packaged metals against corrosion

### Shrinkable Fabric Benefits:

- Removes and reinstalls quickly & easily
- Breathable fabric expels moisture
- Soft fabric inner layer protects product finish
- Reusable
- There's no waste

“ THE BEST PROTECTION POSSIBLE FOR ENSURING THAT EACH NEW SEA RAY ARRIVES AT OUR DEALER'S DOOR IN THE SAME CONDITION IT LEFT THE PLANT”

Bruce Fox,  
Sea Ray Boats

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