

SEAMLESS COATINGS



Waterproof decks, roofs, showers, floors,
walls...

Hard-wearing, chemical resistant coatings...

Keeping a structure watertight is critical to the preservation of any structure. Water is, after all, the single most damaging element to a building facility.

In many cases, owners are faced with water problems that plague a structure from initial construction. As time goes on, these problems become even more severe.

Water first damages a building cosmetically, then structurally. And by the time water damage is visible on the interior of the building, it is likely that some irreversible damage has been caused to the exterior. Once irreversible damage to the building exterior has occurred, costly reinstallation / restoration work is required. Which is why keeping the building watertight is so important.



So why use Polyurethane.....?

- 👍 Quick and Easy to apply
- 👍 Minimal Preparation
- 👍 Corners and Angles, no problem
- 👍 Adheres to virtually any surface
- 👍 Can eliminate the need for expensive substitutes
- 👍 Gels in 30 Seconds
- 👍 Workable within an hour
- 👍 Durable, UV Stable, Weather Proof, Chemical and Abrasive resistant
- 👍 Chemically bonds to itself, making alterations easy and permanent
- 👍 350% Elasticity – 100% Memory
- 👍 Tolerant of a vast range of temperature variations





- **ADHESION**
Polyurethane adheres perfectly to several types of supports; steel, wood, aluminium, stainless steel, fibreglass, concrete, etc. with good surface preparation
- **WATERPROOFING**
Polyurethane linings form a homogeneous waterproofing lining without any welds or weak points. All defects, depressions, cracks and bumps can be covered in one coating
- **FILLING CRACKS**
Owing to its elasticity and its excellent strength, Polyurethane can permanently fill cracks in the sub-layer, and by the same token prevent any penetration of moulds and hostile substances.
- **RESITANCE TO EXPOSURE**
Exposure to weather conditions does not effect Polyurethane linings, thanks to its excellent resistance to hydrolysis, hot air and ozone. A special UV stabilization system is available for outside surfaces directly exposed to sun rays.
- **THERMAL STABILITY**
The Polyurethane Lining is elastic under temperatures ranging from -40deg
- **RESISTANCE TO CHEMICAL PRODUCTS**
A polyurethane lining is resistant to salt water, non-oxidizing acids, corroding agents, chlorine, sea water and pool water.

ADVANTAGES:

- Long Life
- Corrosion Resistant
- Improved Environment
- Strong yet light weight
- Excellent adhesion to any clean surface
- Seamless
- Quick Application – Up to 500m² per shift



POLYURETHANE FACTS



- The raw materials are based on Polyether polyol formulations (Component A) and modified dipenylmethane (Component B)
- In addition to the basic systems, formulations with reduced flammability and increased UV stability are also available. All the systems are highly reactive, which means they can be processed by machine. Owing to the high reactivity of the system the coating solidifies after only a few seconds, which means that Polyurethane can be sprayed on vertical surfaces or even overhead.
- Coatings ranging from approx. 1mm to several centimeters in thickness can be produced in one operation
- Contact with moisture, even when coating is fresh has no effect on curing
- Polyurethane Coatings can be applied on top of already solidified layers with an excellent bond
- Polyurethane Coatings become tack free within a few minutes and can be walked on after 20 – 30 minutes
- Polyurethane can be sprayed by means of our Polyurethane Spraying System.

CONTAINMENT:

Tuff Guard's flexible, seamless and impervious linings offer an incredibly strong and easy to apply solution to provide long term cost effective protection to your company's assets.

Tuff Guard's propriety formulations are highly chemical resistant even at elevated temperatures.

From Chemical Containment to Potable Water Tuff Guard has a spray applied, instant curing solution to meet your needs.

Traditional concrete, fibreglass, paint like and sheet membrane products simply cannot match the flexibility and strength of a Tuff Guard Lining.

Being spray applied and instant curing Tuff Guard provides a seamless, impervious containment lining to any thickness in just one application. Pipe work, fittings and support structures are easily incorporated into the lining eliminating seams and overlap joints, guaranteeing the linings integrity.

Costly down time is significantly reduced compared to other lining methods saving you money.



INDUSTRIAL FLOORING

Applied in one application to any thickness and curing in minutes a Tuff Guard Lined Industrial Floor can significantly reduce costly down time.

- A seamless, impervious hard wearing system that is ideal in food preparation areas, cafaterias, workshop floors, wet areas and factory floors.
- Available in colors
- Environmentally friendly
- Suitable for vehicular traffic
- Highly impact resistant

Tuff Guard's superior sprayed on Industrial Floor linings, will not crack, warp or peel. They are highly resistant to impact, abrasion, oils, fuels and most chemicals.

Being Sprayed On they are seamless and application is rapid. The instant curing nature dramatically reduces down time normally associated with multiple coat flooring system.

A Tuff Guard Industrial floor lining will not need "re-painting" any time in the near future and will provide many years of maintenance free service.



PROBLEMS WITH:-

Roofing

Box Gutters

Decking

Tanks

Pools

Landings

Car Parks

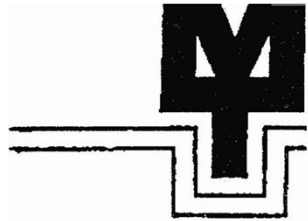
Elevated Temperatures



Tuff Guard's range of superior protective linings extends to superior waterproofing linings. Spray applied and seamless a Tuff Guard waterproofing membrane totally eliminates potential weakness associated with other joined membrane products. Add to this the ability to bond to virtually any surface and the ability to transcend multiple substrates the possibilities are endless.

From Box Gutters and Roofing to Decking and Pools, from Primary Containment Tanks to Potable Water Storage, Tuff Guard has the solution...





**MATERIALS & TESTING
LABORATORIES LIMITED**
Destructive & Non-destructive Test House

P.O. BOX 14 -042, PANMURE 172g MARUA RD., PANMURE, AU CKLAND NZ TEL: 579 0262

CERTIFICATE OF TEST

Report
No.2033/10
Page I of 1
page

Reference: WATERTIGHT POLYURETHANE SPRAY SYSTEMS LIMITED

Subject: Testing of two samples of sprayed polyurethane
for resistance to water penetration.

Standard: AS/NZS 4201.1. 1994 Method 4.

Sample Identity: Polythene.

Equipment: Cylinder 28 cm² Cross section.
Coloured water, filter paper.
Tests conducted at 23^oC

RESULTS: Sample A.
2.3mm thick test duration 60 hours - Pass.
Sample B.
1.1mm thick test; duration 24 hours - Pass.

Tested by: CAW
Date reported 10/6/97
Reported by: CAW

Signed
C. A. WHEELER

FOR FURTHER INFORMATION PLEASE DO NOT
HESITATE TO CONTACT QUALITY URETHANES :

on

STEPHEN – 083 556 9454

or

EMAIL US

- hotspot@hotmail.co.za

www.tuffguardgp.co.za