

# Expanseal\* Interlock

Single component, liquid polyurethane sealant for the sealing of sheet piles interlock joints

## Uses

Especially design for the sealing of sheet piles interlock joint, Expanseal\* Interlock expands five times of its original volume in presence of moisture/water.

## Advantages

- Excellent adhesion with metal surface
- Expand five times of its original volume
- Provides excellent sealing
- Long working life
- Environmental friendly
- Heat resistant
- Easy application

## Description

Expanseal\* Interlock is single component polyurethane liquid applied sealant for the sealing of sheet piles interlock joints.

## Instruction for use:

**Surface preparation,** prior to the application of Expanseal\* Interlock make sure that sheet pile interlock joint are properly clean and free from dust, mud, and any form of loose material which might effect in adhesion.

**Application,** place a piece of tape over each end of the interlock joint to prevent the Expanseal\* Interlock from flowing out of the interlock, fill the middle joint with Expanseal\* Interlock if the material overflows it will not be a problem, the side joint should be filled to a depth of approximate 5 mm.

The sheet pile can be driven after a curing time of approximate 24 hours; treated sheet pile should be protected from moisture before it is driven, if long term storage is anticipated it would be best to invert the sheet pile and cover to protect from moisture.

After approximate 24 hours of curing time the sheet piles can be driven, after 24 hours Expanseal\* Interlock will cure enough on the surface in that time to hold it in place, sheet pile driving procedure will break the cured surface and allow the Expanseal\* Interlock to fill the voids in the interlock area, once the sheet pile is driven and cure material will comes into contact with water/moisture it will start swelling and form a complete watertight seal, cured material will expand five times of its original volume.

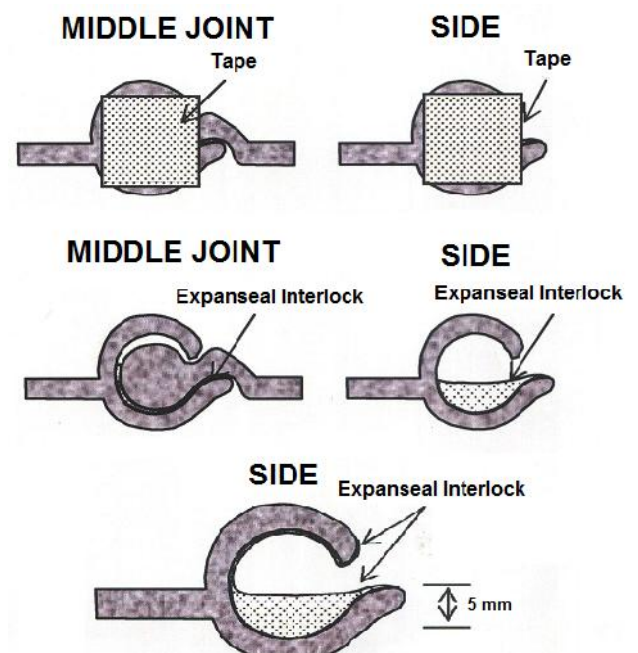
Cured Expanseal\* Interlock can withstand a hydrostatic head of approximate 50 meter; it adheres well to the sheet pile and does not tear off during the driving process.

Expanseal\* Interlock cures into a rubber like state, it does not contain toxic solvents, and safe to handle, the performance of Expanseal\* Interlock will not degrade under continuous water contact, its flame-resistant, environmental friendly, heat buildup during the driving process will not affect the cured Expanseal\* Interlock

Expanseal\* Interlock performs in aggressive ground water substances and has good resistance to a numbers of chemicals, some chemicals in higher concentrations may affect the performance of Expanseal\* Interlock, contact Fospak Expanchem for details.

## Properties

Appearance	: Light yellow liquid
Viscosity	: 5,000 ± 2,000 Cps @ 25 °C
Solid contents	: 85 % ± 2
Tensile strength	: >10 kgf/cm <sup>2</sup>
Elongation	: > 450 %
Swelling rate	: > 400% (2 days in water)
Hydrostatic pressure resistance	: 5 bar (50 meter water head)
Swelling rate	: > 400%
Curing time	: Inner 24 hrs. (RT, 75%RH)



### Estimating - packaging

Expansal\* Interlock is available in 20 kg Pail.

### Cleaning

All tools and equipment should be cleaned immediately after use with Expanchem Solvent 102\*. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

### Fire

Expansal\* Interlock and Solvent 102 is flammable. Keep away from sources of Ignition. In the event of fire extinguish with CO<sup>2</sup> or foam. Do not use a water jet.

### Storage

Expansal\* Interlock has a shelf life of 12 months, if kept in dry conditions at 20°C. If stored at high temperatures the shelf life will be reduced.



**Cleaning of sheet piles interlock joints**



**Attach a piece of tape over each end**



**Pouring of Expansal\* Interlock**



**Expansal\* Interlock expand in presence of moisture**

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