



The Proven Sheet Pile Interlock Sealant

# **WADIT**

































#### **WADIT** = Watertight



WADIT® is a steel sheet pile interlock sealant based on sustainable natural raw materials which provides a reliable water seal for sheet pile walls.

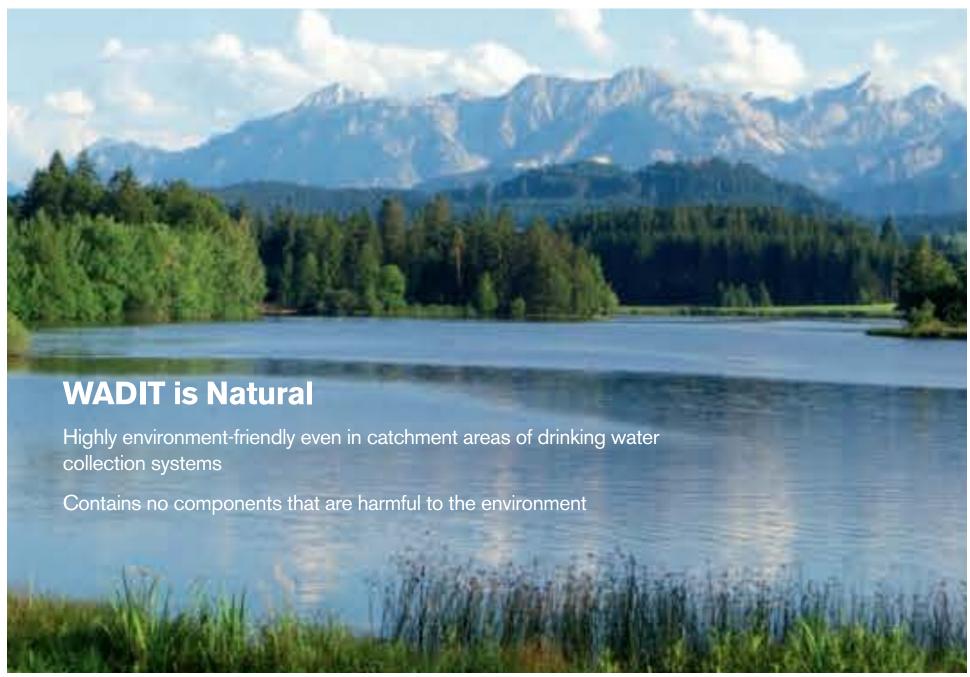
Its load capacity is huge, but WADIT® still has extremely green credentials. It is a sealant which can be applied when hot and has been used successfully throughout the world for more than 10 years.

WADIT® has proved to be stable and produces outstanding results even in extreme climatic conditions such as in the tropics or the Arctic



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# **Flexibility**



Conventional materials start to become brittle as temperatures fall to 50°F or less - work in ground water (40 - 46°F) can be a problem

WADIT® remains perfectly flexible even below 20°F

it does not become brittle



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#### **WADIT - Works in extreme heat**



Safe and effective at water pressure levels up to 5 bar or 130 ft

Stable and non-deforming in temperatures of up to 125°F

WADIT® can be used for high pressure sealing requirements with long pile lengths and extreme temperature ranges



#### **Less Friction**

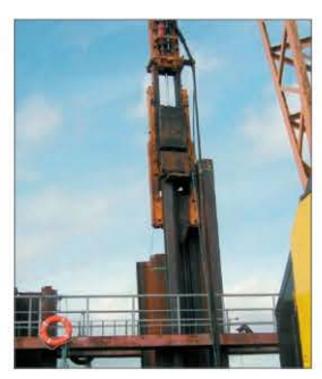


WADIT® creates a film of lubricant in the interlocks

as it is inserted reducing interlock friction

WADIT® is very suitable to the 'in and out' installation method using the press in pilers









Leak-tightness studies for sheet pile interlocks under chemical influence of Creosote using the sealant Wadit











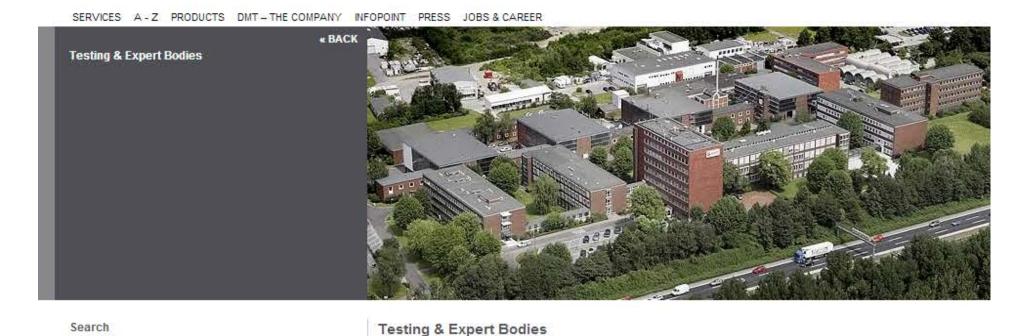




Expert Body for Hazardous Substances in Mining

Expert body for the measurement and testing of hazardous substances in terms of their potential risk to the environment and in the workplace.





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Leak-tightness studies for sheet pile interlocks under chemical influence of Creosote using the sealant Wadit



#### C. residence time 72 hours below 30℃

The 72 hour sample below 30℃ showed during the test with water no leakages.

A structure change of Wadit® could not be found. The flexibility remained.

The contact power of Wadit® is unchanged.



72 hours below 28F
 No leakage
 No change in bond
 and flexibility

#### D. residence time 48 hours, direct contact with Creosote

The 48 hour sample showed during the test with water no leakages.

A structure change of Wadit® could not be found. The flexibility remained.

The contact power of Wadit® is unchanged.



48 hours room temp
 No leakage
 No change in bond
 and flexibility

#### **Chemical Resistance**



1 Acetalehyde										
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Seite 5/5 Datum 04.05.2009

#### Conclusions

The sheet pile locker, which were sealed with Wadit®, show no leakages 

No leakage under the above discribed conditions.

No Influences on the Wadit® could be detected by diluted (with soil) or by undiluted (without soil, direct contact with the test sample) Creosote.

The Wadit® shows no visible changes and alterations regarding the contact power and flexibility.

No influence on Wadit diluted or undiluted

No change in contact power and flexibility

Kind regards DMT GmbH & Co. KG

wadit.com | 866-666-PILE (7453) | info@wadit.com | The Proven Sheet Pile Interlock Sealant





#### Fakultät Bauwesen

Lehrstuhl Tragkonstruktionen Univ. Prof. Dr. Ing. Atilia Otes

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WADIT-Sealant

for

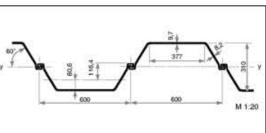
**Sheet Piling Walls** 

- Documentation of experiments for water-tightness -

Dipl.-Ing. Th. Topp

February 2008





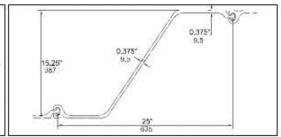
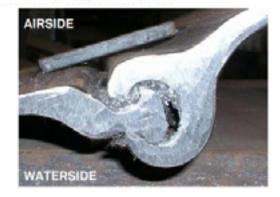


Figure 4: LARSSEN-Sheet pile (Type 603)

AIRSIDE WATERSIDE

Figure 5: PZC Sheet pile (Type PZC 18)









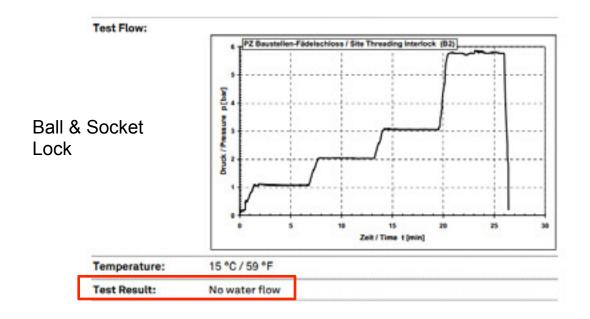


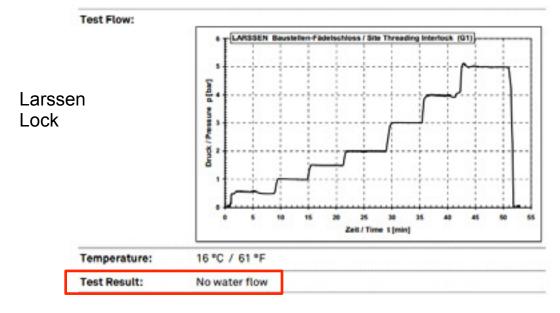
Test setup without specimen

Test setup with specimen

Pressure control with Manometer







#### For Potable Water





**Examining authority: State Trade Supervision Department for Bavaria** (LGA) Institute for Environmental **Geology and Contaminated** 

"The reports from the LGA come to the conclusion that WADIT® sealing compound can be used as a sealing compound in sheet pile walls for ground and surface water without restriction."

"there is no concern of harmful effects in the catchment area of drinking water collection systems."

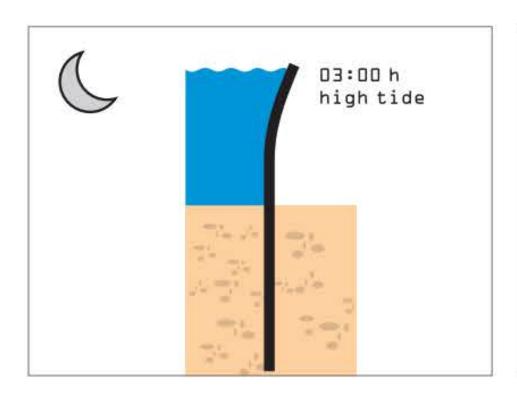
Sites

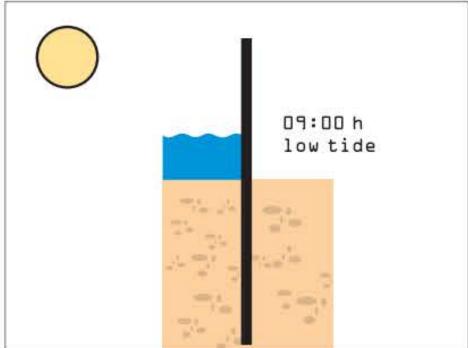
## **Bond = Durability**



Wadit® has exceptional bond to the steel

It prevents corrosion in the interlocks and can be used with coatings.





## **Filling of Interlocks**



Piling can be driven within 30 mins, or let sit for months.

A professional 2-man crew can install up to 5,000 ft per day



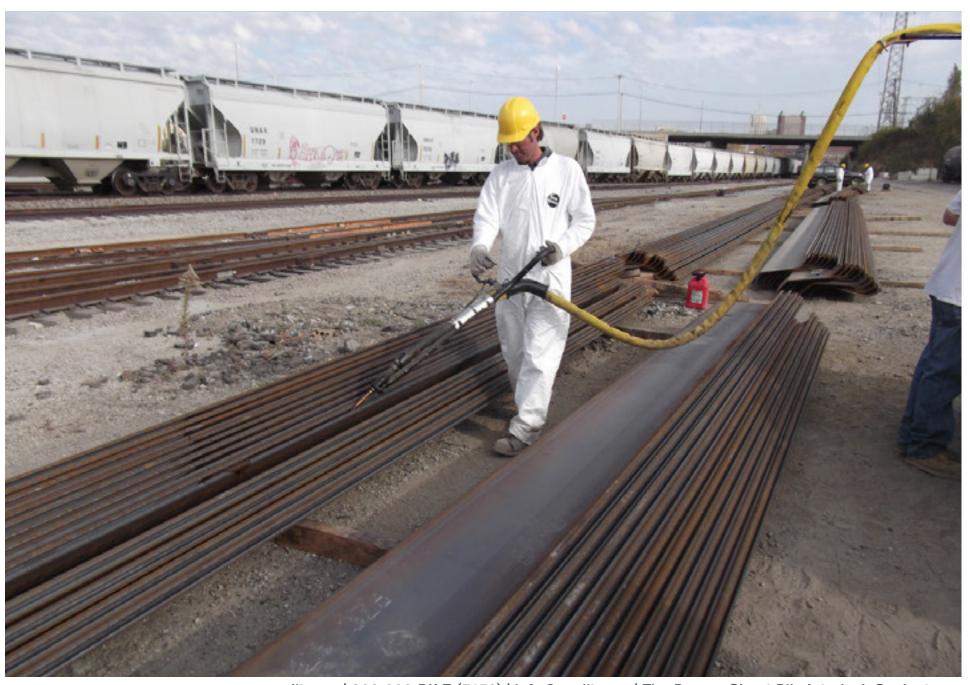












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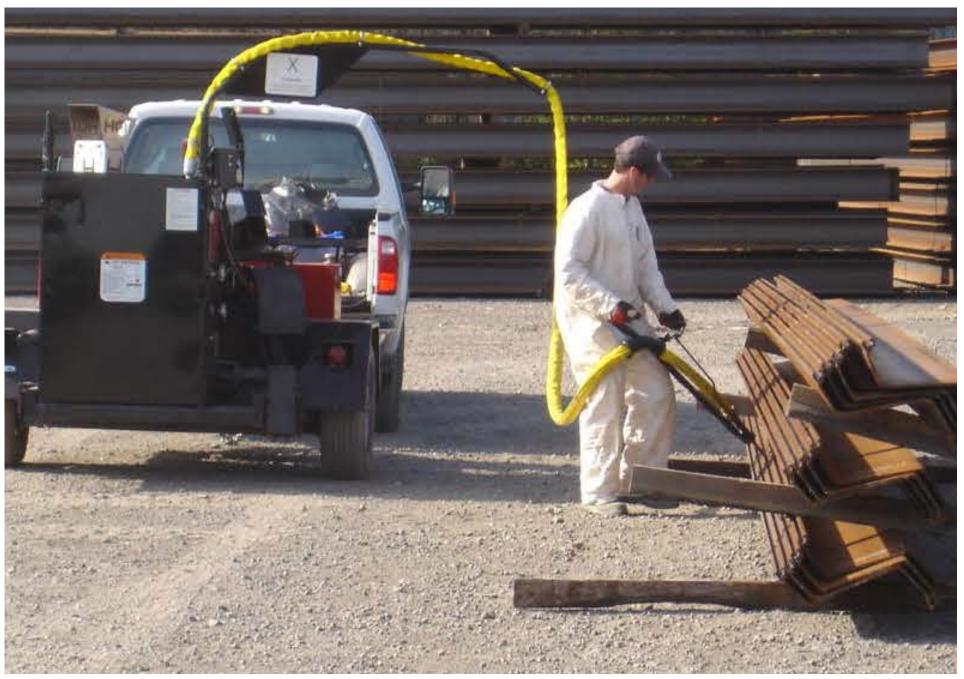
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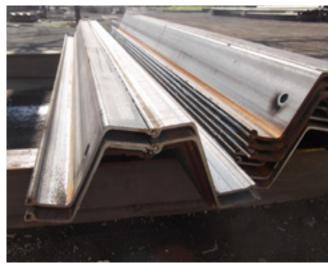






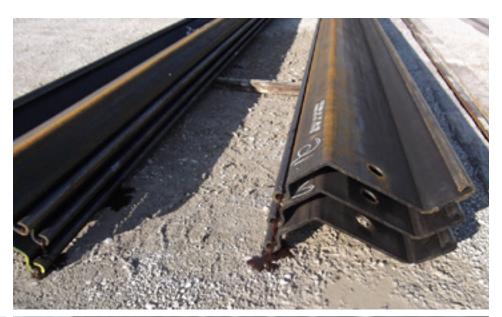
















#### What is it



Ingenious sealant made exclusively for sheet piling

A natural sustainable raw material

#### Why it is different

Environmentally friendly – use with drinking water – non toxic

Excellent chemical resistance

Use in extreme hot or cold

Water resistant to 130 ft

Corrosion inhibitor – increases durability

Lubricant to aid driving

Professionally applied at distributor or jobsite

### Why it is different?



- 1. Ingenious sealant for sheet pile walls
- 2. Made exclusively for sheet piling
- 3. Environmentally friendly use with drinking water non toxic
- 4. Unique elasticity does not harden or become brittle
- 5. Excellent chemical resistance
- 6. Use in extreme hot or cold
- 7. Water resistant to 130 ft
- 8. Corrosion inhibitor increases durability
- 9. Lubricant to aid driving



Thank you.