

**Description**

WADIT® is a globally proven sheet pile interlock sealant that is proven in both tropical and arctic conditions.

WADIT® is made using natural, sustainable raw materials and can therefore be used in direct contact with drinking water in compliance with LGA/Nuremberg.

WADIT® is non-toxic and contains no harmful substances.

WADIT®'s composition is protected by patents.

| | |
|---------------------|--|
| Base material | Natural, sustainable raw materials |
| Colour | Olive-black |
| Form | Solid |
| Container | Melting 25 kg sacks |
| Melting temperature | 130 to 170°C |
| Melting device | Casting compound cooker Ideal: Thermal batch cooker |
| Soluble in | Organic solvents such as xylene, benzene and bio diesel |
| Density at 20°C | 0.994 g (cm ³) |

Safety precautions

| | |
|----------------------|-----------------|
| Respiratory passages | None required |
| Hand protection | Rubber gloves |
| Eye protection | Goggles |
| Body protection | Closed clothing |

Applications

- Temporary sheet pile wall constructions
- Permanent sheet pile wall constructions
- Building trenches in soil with a high ground water level
- Casting the sheet pile wall interlock to prevent the ingress of soil components and the seizing of the piles during the driving process that this involves
- Sheet pile wall constructions in soil types with ground water and a low content of fine particles (gravel-type soil) and with unsuitable particle size distribution
- Reduction of interlock friction
- Encapsulation of contaminated soil areas
- Dam renovation work
- Sealing river banks
- Delimitation of underground water masses in water protection areas
- Sealing work on concrete and steel parts

Benefits

WADIT® differs clearly and massively from similar products in five ways:

● **Unique durable bond**

WADIT® creates a secure bond even in extreme conditions, such as strong water, ice or earth pressure, movements of the sheet pile wall, displacement of the piles during transport, etc. in the interlock chamber. Even in daytime temperatures of 50°C the material will remain stable in the interlock.

● **Optimal flexibility**

Conventional materials become as hard as glass in temperatures of just 10°C. WADIT®, on the other hand, remains extremely flexible even in ground water (5° to 7°C throughout the year). This means that no sealant can break out of the interlock when the sheet pile walls are inserted, thus resulting in leaks.

● **Memory effect = material rebound after movement**

This unique effect of WADIT® (at ground water temperature) guarantees an excellent seal even in the event of torsion and other movement in the sheet pile wall interlock.

● **Simple to handle**

One sack of WADIT® in the furnace = 25 kg of ready-mixed sealing compound, no additional work precise mass calculation for daily use and no additives for temperatures to 5°C.

● **Clever packaging**

WADIT® is melted complete with its packaging. No residual waste materials are produced.

Interlocks with a WADIT® seal

Larssen



Hoesch Z



PZ



Light profile



Omega 12



**Application**

Place the entire bag of WADIT® (including the plastic bag it comes in) in an indirect oil-fired thermostatic controlled cooker. Please be careful not to overheat! When installing WADIT®, the interlocks must be clean, dry and free of "rolling skin".

If the outside temperature is lower than 5°C then add WADIT® FLEX as described below. WADIT® FLEX should be added to WADIT® after WADIT® is already in the cooker.

WADIT® FLEX is also non-toxic and will increase the overall volume of material available for sealing.

Recommendations

For used sheet pile, the existing residue in the interlock must be melted briefly using a bunsen burner.

We also suggest that if the temperature is less than 0°C then the interlocks should be slightly warmed, with a bunsen burner. Do not apply WADIT® to a damp interlock!

Important information

Do not overheat the casting compound in any circumstances since this may adversely affect its quality. The temperature must be between 130°F and a maximum of 170°C. Regular temperature controls using a thermometer is advisable. During the heating phase the casting compound is to be stirred at regular intervals. If the casting compound is overheated, it should be discarded and not used.

Quantity instructions for WADIT®

300 g of WADIT® per meter of sheet pile wall interlock
The quantity may be higher for used piles.

Quantity instructions for WADIT® FLEX

The external temperature at the time of the piling operation is the main criterion for the addition of WADIT® FLEX.

External temperature:

| | |
|--------------|------------------------------|
| Over 5°C | No addition required |
| Down to -5°C | 2 litres per 25 kg of WADIT® |
| Below -5°C | 5 litres per 25 kg of WADIT® |

Container size for WADIT® FLEX: 20 litres canister

Cleaning tools and equipment

WADIT® is soluble in organic solvents such as xylene, benzene and diesel. Rape seed oil and bio diesel are particularly environment friendly solvents for this purpose.

Treatment of residue

Small quantities WADIT® that have been dissolved using environment-friendly methods can be disposed of in building waste landfill sites. We recommend that it be bound with lime or cement.

Storage

WADIT® can be stored for an unlimited period of time. Avoid direct UV radiation. Recommended temperature below 30°C.

What to do in the event of accidents

If WADIT® causes skin burns as a result of improper handling, the affected area is to be cooled for several minutes using cold water. Do not pull off material affixed to the skin or attempt to remove it with solvents. Seek medical attention.

Report (safety certificate)

Investigating body:

Bavaria State Trade Department (LGA)

Institute for Environmental Geology and Contaminated Land

Tyllstr. 2, 90431 Nuremberg, Germany

Phone: +49-911 / 655-5699

www.LGA.de

Material: WADIT® sheet pile wall sealant
Date of investigation: 1997, 1999, 2000



Result (extract):

"The reports by the LGA come to the conclusion that WADIT® sealant can be used without any restrictions in sheet pile wall interlocks in ground and surface water areas.

If used correctly, therefore, there are no fears of harmful effects if it is used in the infert area of drinking water extraction systems."

The detailed investigation report can be requested from us at any time.

TIP. Sealing in difficult soil conditions

When the vibration piling method is used it is possible that fine particles in the soil with sharp edges can become fixed in the free, leading sheet pile wall interlock. The trailing hook strip on the sheet pile wall interlock compacts to such an extent when this soil is inserted that the advance of the pile stops. This results in high friction in the interlock area, which can generate extreme heat and can thus also cause considerable damage to the interlock. These wedged fine soil particles often result in interlock ruptures and thus to the partial damage of the sheet pile wall construction. Apart from the material loss this process also causes massive costs for renovating the sheet pile wall construction.

To prevent the ingress of soil we recommend that the leading sheet pile wall interlock be sealed with WADIT®.

More information is available on the Internet at www.wadit.com