

terra infrastructure

safety: efficient and sustainable

INFO SHEET - SEALING PRODUCTS FOR VERTICAL SEALING

Sealing materials are made from flexible or at least slightly deformable materials, which are used to seal the inner space of sheet pile locks and thereby significantly reduce the water permeability of steel locks. Globally proven joint sealants for steel locks (see below) can be applied to all types of hot-rolled or cold-formed steel sections in any climate. The sealing material can be used for temporary as well as permanent sheet pile constructions (structures in water management, drainage, foundations for concrete structures, etc.).
The sealing material BIGUMA®-Lock and WADIT can be applied all year round, up to outside temperatures -5 °C. We only offer Siro 88 sealing application in the summer months.

BIGUMA®-Lock sealant
Hot applied bituminous sealant (mixture of bitumen, polymers, organic and inorganic components) with the addition of softening additives for sealing the interlocks of steel sheet piles. It is very easy to apply and has high adhesion. Sealed steel profiles can be used immediately after cooling (approx. 1 hour after applying the sealant).
If the outside temperature drops below 0°C (min -5°C), it is necessary to add **BIGUMA®-Additive W** to the mixture. It is a special liquid additive to improve the plasticity and flexibility of the sealing material so that, even at temperatures below 0°C, a smooth installation of the sealed locks of steel sheet piles.
If the customer orders sealed sheet piles in the summer and knows that he will install these sealed sheet piles only in the winter, he should request the addition of BIGUMA®-LOCK Additive W to the BIGUMA®-Lock sealant.

INFORMATION

Before installation, the Corner interlock profile must be installed in the sheet pile in accordance with EN 12063 and welded to the sheet pile along its entire length. The interlock profile must be driven together with the sheet pile. Individual pile driving is not permitted.
Degree specifications refer to the interlock profile axes. If interlock fillings or seals are used, the specified rotation angles may deviate. Rod twists of up to 2 mm per meter are possible. We reserve the right to make technical changes.

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WADIT sealant

Sealant obtained from natural materials. It ensures a safe connection even under extreme conditions, such as the action of water, ice, and earth pressure. The applied sealant on the steel surface retains its properties even at daytime temperatures of around 50 °C. Commonly used sealing materials harden already at a temperature of around 10°C, while WADIT maintains flexibility even at a water temperature of 5 to 7°C. This means that during the installation of steel profiles, no sealant can fall out of the locks and water leaks do not occur. WADIT is a globally proven sealing material used for all types of steel sections in any climate (tropical to arctic). WADIT is non-toxic, internationally laboratory tested and certified for safe use in areas of groundwater, surface water and can also be used in areas of drinking water sources.

Security certificate: www.wadit.com

Technical data	Biguma Lock	Wadit
density at 25 °C (g/cm3)	1,1	-
application temperature	160 °C	130-170 °C
flash point	> 230 °C	> 200 °C
consumption / 1 m interlocks	250-450 g/m	250-350 g/m
melting point / freezing point	>80 °C	-
watertightness	-	5 bar
color	black	reddish brown

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