

maxit[®] mörtelpad[®] one step ahead eco

Brickwork 3.0



- ✓ **24% faster**
- ✓ **33% less CO₂**
- ✓ **intuitive handling**
- ✓ **maximum quality brickwork**

Easy – quick – safe – sustainable:

maxit[®] mörtelpad_{eco}

Mörtelpads revolutionize brickwork construction

Building materials for brickwork are in a state of constant change: increasing demands made on the building envelope require constant adjustment of the technical efficiency of these materials. The handling methods used have to adjust to this. The innovative **maxit mörtelpad eco** now sets new standards in brickwork construction: it consists of dry mortar, a water-soluble hot-melt adhesive and a glass fibre reinforcement to provide additional stability. This revolutionary combination ensures that brickwork can be handled in an easier, more targeted way and with more reliable quality – all in combination with considerable time savings.

More time for what's really important

Preparation and completion work during bricklaying requires a lot of effort. First you have to mix the mortar in the right proportions, keep it at a consistency suitable for handling purposes and make sure that it does not dry up during breaks or after work is completed. This takes time and effort. With the new **maxit mörtelpad eco**, things are all different: „Just open the packet and add water“. The annoying dust development of days gone by is now a thing of the past: the bricklayer briefly moistens the substrate, removes the dry Mörtelpads

from the vacuum foil packaging and lays them on the row of bricks. Then he waters the Mörtelpad until the "troughs" on the surface of the pad are filled with water. After about one minute, the next brick can be laid and then hammered down. Mörtelpads save time in logistics too: you order them by the pallet so you always have the right quantity of Mörtelpads at the building site. The result is considerably less waste. Summing up, the Mörtelpad achieves more performance with the same number of man-hours.

33% less CO₂

Minimising our carbon footprint is one of the greatest challenges of our age. The construction industry is playing its part by developing products with sustainability in mind. To this end, we have further improved the formulation and composition of the **maxit mörtelpad eco**. Through the use of special low-energy cements, we have managed to cut CO₂ emissions by a full 33% compared with conventional thin-bed mortar.



24% higher work rate with the same time and personnel planning

Standard bricklaying can be carried out faster with **maxit mörtelpad eco**, as demonstrated by a recent independent time-and-motion study conducted by the German Institute for Time Management and Business Consulting in Construction:

"The use of maxit mortar pads can cut the time required to create bed joints by 55% compared with applying conventional thin-bed mortar. The total time for transportation (provision) and bricklaying falls by 24% compared with applying a full bed of thin-bed mortar."

– Dipl.-Ing. (UAS)
Manfred Scholtyssek



**Institut für Zeitwirtschaft
und Betriebsberatung Bau**



Understandable with no ifs or buts

Innovative, time-saving methods often require intensive instruction and the necessary experience. This is not the case with the "maxit mörtelpad eco", however: it can be handled easily and intuitively, and its use offers many advantages. For example, the mortar joint can become uneven when a conventional trowel is used. The mortar sled has helped out here, but it weighs around 25 kg when full. In contrast, the maxit mörtelpad has a weight of only about 300 g and guarantees a covering mortar joint which is closed over the entire area in spite of differing formats. The correct quantity of water for moistening the maxit mörtelpad eco is easy to see from trough-like cavities on the surface, and most building sites have sufficient flowing water. The use of mortar silos and mixing machines can thus be dispensed with in future.

Quality brickwork with optimum values

The simple execution and the huge time savings speak for themselves, but they are only of value when the resulting brickwork meets maximum quality standards. Independent studies carried out by the Aachen construction research institute ibac prove that the maxit mörtelpad eco achieves the same excellent results as the conventional method, in which covering thin-bed mortar is used. In terms of stability and bonding, therefore, maxit mörtelpads are comparable with a thin-bed mortar of class M10. This knowledge was gained under laboratory conditions and on test building sites. The maxit mörtelpad eco is a mineral product made from natural raw materials.

Key advantages at a glance:

- ✓ Suitable for interior and exterior use with all common masonry thicknesses
- ✓ 33% less CO₂ in the production process compared with a full covering of conventional thin-bed mortar
- ✓ Up to 24% higher work rate
- ✓ Less time spent on preparation and follow-up work during bricklaying
- ✓ Easy to use
- ✓ Consistently high-quality results
- ✓ No need for additional equipment (application and cost benefit)
- ✓ Makes for a cleaner construction site
- ✓ Significant weight savings

For exterior and interior walls in any dimension





24% higher work rate

A comparison from the "Arbeitsorganisation Bau" handbook on work organisation in the construction industry

Conventional mortaring (thin-bed mortar/full coverage)

vs. mortaring with **maxit** mörtelpad eco

Table showing German standard working time guidelines (ARH guidelines)

Brick masonry					Area value h/m ²			Volume value h/m ²		
Degree of difficulty	Wall thickness (cm)	Brick code*	Brick dimensions l x w x h (mm)	Bulk density class	ARH guideline standard times			ARH guideline standard times		
					provision	bricklaying	total	provision	bricklaying	total
Full masonry without deductible openings	36,5	12 DF	247/365/249	0,6	0,11	0,32	0,43	0,31	0,89	1,20
				0,6	0,08	0,26	0,34	0,22	0,71	0,93
				0,8	0,12	0,35	0,47	0,33	0,95	1,28
				0,8	0,09	0,29	0,38	0,25	0,79	1,04
		18 DF	372/365/249	0,6	0,11	0,30	0,41	0,29	1,82	1,11
				0,6	0,08	0,23	0,31	0,22	0,63	0,85
Structured masonry with deductible openings	36,5	12 DF	247/365/249	0,6	0,11	0,39	0,50	0,31	1,06	1,37
				0,6	0,08	0,33	0,41	0,22	0,90	1,12
				0,8	0,12	0,41	0,53	0,33	1,12	1,45
				0,8	0,09	0,35	0,44	0,25	0,96	1,21
		18 DF	372/365/249	0,6	0,11	0,36	0,47	0,29	0,99	1,28
				0,6	0,08	0,30	0,38	0,22	0,82	1,04

Source:

Handbook on work organisation in the construction industry; working with large-size masonry units; guideline standard times.

Masonry: High-precision clay
 Head joints: Groove and tongue
 Bricklaying: without lifting equipment

*Brick codes are specified in DF; DF = German abbreviation for „Dünnsformat“ which refers to a standardized size for flat facing bricks.

Brickwork 3.0 – the long march to the maxit mörtelpad

The evolution of brickwork handling takes another step forward with the **maxit** mörtelpad eco. There had already been dramatic changes over the years, from purely manual work to trowels and finally mortar sleds. With the **maxit** mörtelpad, maxit is now putting a handling method on the market which combines the strengths of the old techniques with effective innovations. Or to put it more simply: high-quality brickwork – handled quickly, intuitively and reliably.



1

Moisten bricks



2

Lay on **maxit** mörtelpads



3

Cut to size if necessary



4

Water **maxit** mörtelpads



5

Position brick with full surface



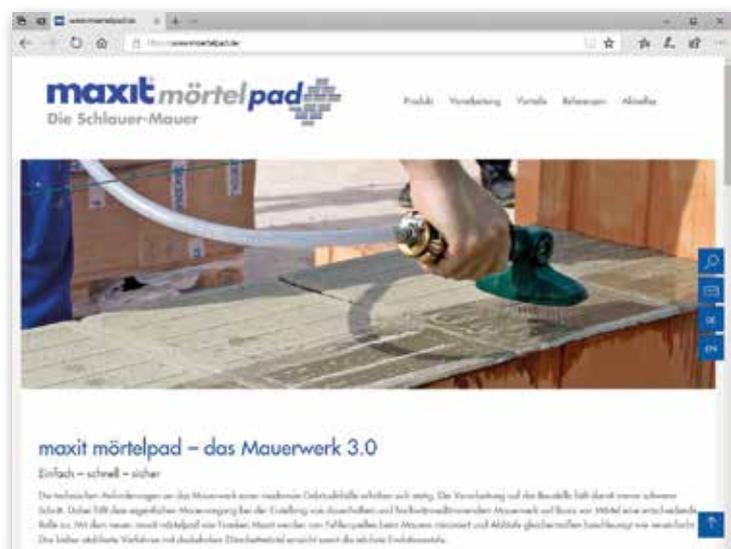
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Align brick in usual way

Technical data

Material consumption	Depends on brick format and pad size
Handling temperature	Do not handle at air and/or object temperatures of less than 5 °C and more than 30 °C and if night frost is expected
Fire behaviour	A 1, non-combustible
Outdoor use	Yes
Indoor use	Yes
Adhesive shear strength acc. to DIN 18555	> 0.5 N/mm ²
Thermal conductivity λ_{10dry}	0.208 W/(m*K)
Approval-No.	Z-17.1-1134
Patent-No.	DE10 2013 007 800, EP 2 994 283 (B1)

Go to www.maxit-moertelpad.de for more information and the handling video.



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S/60473/03.2023/1100/710886