

TECHNICAL DATA SHEET

KEMA MASTIC WA

Hydro swelling mastic for sealing on wet areas



PRODUCT DESCRIPTION

KEMA MASTIC WA is a one-component, grey coloured, polyurethane based, elastic, hydro swelling mastic, which cures and swells in the presence of moisture. In contact with water it will expand to approximately 200 % of its original volume.

Field of use

It is designed for sealing rough and smooth construction joints and pipe penetrations in wet or underwater applications. It can be applied to concrete, PVC, HDPE, steel, etc.

Product properties

- Flexible system, which adapts to the irregular surface of the substrate
- Easy application with standard caulking gun
- Solvent-free
- It is approved for contact with potable water
- It doesn't dissolve in water

PRODUCT DATA

Basic information

Appearance	During application pasty, after curing rubbery. Colour: grey	
Packing	600 ml in in ALU sleeve / 7200 ml (12x600 ml) in cardboard box	
Storage and expiration date	12 months from the day of manufacture when stored properly in dry place and in the original, sealed and undamaged packaging. Manufacture date or date of usability is stamped on the packaging.	

Technical data

Solids	100%	Test DNC
Uncured		
Consistency	Gel / Paste	Test DNC
Density (at 20°C)	Approx. 1,45 kg/dm ³	DIN 53504
Slump in vertical applications	< 5 mm	Boeing test
Handdry (at 20°C and 60% rel. humidity)	10 h	Test DNC
Flash Point	> 130°C	Pensky-Martens method
Cured (at 25°C, 10 mm thick)	7 days	
Swelling capacity in contact with water	Swells to approx. 200% of its original dry volume	Test DNC

INSTRUCTIONS FOR USE

Consumption

Depends on the quality of concrete per linear metre.

Nozzle diameter	Length
3 mm	40-50 m
6 mm	16-20 m
8 mm	8-10 m
10 mm	approx. 6 m

Base

KEMA MASTIC WA is preferably applied onto a dust-free concrete surface. The surface can be rough or smooth, moist or dry.
When applying KEMA MASTIC WA in underwater or very wet applications, be certain to cast the concrete within 6 hours to prevent premature swelling.

Installation

Put the sleeve in the empty tube of the caulking gun and cut 1 cm off the top of the sleeve. Close the tube and install the nozzle. Cut the nozzle diagonally at the appropriate position.
KEMA MASTIC WA is applied with a caulking gun in an uninterrupted band (minimum 10 mm wide and high), in the middle of the joint or prefab element. Concrete cover should be at least 7 cm on both sides, in order to avoid cracks from the expansion pressure of swelling KEMA MASTIC WA.

Cleaning of tool

Clean all tools and application equipment with appropriate solvent immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS**Base temperature**

+5°C min. / +30°C max.

Air temperature

+5°C min. / +30°C max.

Material temperature

+5°C min. / +30°C max.

Warnings

- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50 %. Higher temperatures reduce, while lower temperatures prolong those times.
- Installation during heavy rain or in prolonged contact with water results in a premature swelling of the strip, which should be avoided.
- Preferably the mastic should cure for 24 hours before pouring concrete.
- Curing time depends on temperature and humidity conditions, i.e. curing time will reduce if RH and C° are higher. KEMA MASTIC will become firm in 24-36 hours. Performance is not affected by the curing time
- Despite the fact that KEMA MASTIC has a very good adherence to the concrete, care must be taken, as with all products of this type, not to pour the concrete directly on the product to avoid damaging of the applied sealant.

Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

During the application the ventilation of room is recommended. Keep away from the reach of children. For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.