

Multisan – thermal insulating and rehabilitation mortar for exteriors / interiors (T, R)

DESCRIPTION

Multisan plaster mixture is a readymade dehydrated plaster mixture. After mixing with water, it produces highly pliable mortar, used mostly as rehabilitation plaster, which may be part of a system of measures to handle moisture problems in building construction. However, it also has a thermal insulation capacity ($\lambda = 0,09 \text{ W/mK}$). Once hardened, the mortar is capillary-active and has a high pH, thus preventing growth of moulds, algae and other microorganisms on its surface. Thanks to its very low modulus of elasticity, it does not tend to crack, so it is highly suitable for mixed masonry and otherwise difficult bases. The vapour transfer coefficient ($\mu < 10$) guarantees excellent functioning on most walls. The technical parameters described in this paragraph have been achieved recently because the product is undergoing constant development to achieve improved use properties.

COMPOSITION

Cement, dry hydrate, puzzolan-based bonding agent, Poraver special bonding agent, modification additives

MATERIAL CONSUMPTION

- $1\text{m}^2/10 \text{ mm}$ thickness = approx. 3 kg
- One 7kg bag makes 1 m^2 of 20 - 22 mm thick

BASE PREPARATION

Old plaster systems, which are oftentimes degraded due to salts, have to be removed off the wall up to about 100 cm above the visible moist line. Scrape through joints about 1 – 2 cm deep, e.g. using a clip anchor. Old plasters have to be taken to a controlled dump as soon as possible. Then clean the wall with a brush, allow it to dry as needed, and apply Multisan plaster. The plaster has excellent adhesion, so there is no need for an under layer. Then spread the plaster so that the layer thickness is at least 20 – 25 mm. After that, follow normal rehabilitation procedures, such as WTA regulations.

FINISH

The plaster surface can be dressed with a hard finish, such as ThermoIN stucco, which has similar properties to Multisan plaster. Diffusion-open paints – lime, silicate or silicon based are suitable for paint coats.

PROCESSING

- Mix the plaster with drinking water or water compliant to ČSN EN 1008.
- Pour 1 liter of water in the mixing vessel add the full contents of the bag (7 kg). Stir all gently and add another 2 liters of water on top.
- Stir the resulting mixture well with a low-speed blender 5 – 7 minutes (at 400 – 500 rpm).
- Allow the blended mixture to set for about 5 minutes and then stir again briefly for about 1 minute.

- Depending on the air temperature and humidity, the amount of water used can be within a tolerance of approx. 10 % (2,9 – 3,2 l of water per one bag).
- Always mix the full bag.
- Any additions of materials to the dry or wet mixture are inadmissible. The pliability period of the blended mixture depends on the ambient temperature and humidity.
- The processed mixture has to be applied to the surface within 1 hour of the completed processing. During the application, the temperature must not drop below +5 °C (air/base) – do not apply when night frost can be expected.
- We recommend applying the mixture in plastic plaster screeds.

TECHNICAL DATA

Thermal insulation mortar for exterior and interior (T) as per EN 998-1:2010 categories CS I, W1, T1			
Compressive strength:	1,60 N/mm ²	Reaction to fire:	A1
Adhesion:	0,35 N/mm ²	Bulk density:	400 kg/m ³ ±10 %
Capillary water absorption:	W1	Water vapour permeability:	μ < 10
Thermal conductivity:	λ < 0,09 W/mK	Durability:	15 cycles

STORAGE

Store in a dry place, protect from moisture. Under these conditions, the safe storage period is 12 months from the manufacturing date as marked on the packaging.

PACKAGING

The plaster mixture comes in 7 kg paper bags with a PE liner. One pallet contains 90 bags and pallets come with PE wrap.

IMPORTANT INSTRUCTIONS

Do not handle at too high or too low air and wall temperatures (below +5 °C), in direct sunlight or in strong wind. Do not mix with other products.

SAFETY INSTRUCTION



Danger

Hazard statements

- H315** Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.



Precautionary statements

- P102** Keep out of reach of children.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501 Dispose of contents/container in accordance with local regulations.

Hazardous substances: Portland cement CAS 65997-15-1
Calcium hydroxide CAS 1305-62-0

QUALITY CONTROL

We perform continuous quality control of all our products according to PCS and apply a certified quality management system under ČSN EN ISO 9001:2009.

MANUFACTURER

SATSYS Technology a.s., Vejdovského 1179/6a, 779 00 Olomouc, Czech Republic

Date:	3. 3. 2014	By issuing this material technical data sheet the former one is not valid.
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