

<p><b>Technical Data Sheet</b></p> <p><b>(gluing and plastering polyurethane putty)</b></p>	<p><b>NEW-THERM® ST04/FS</b></p>	
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### Composition

Fillers, portland cement, special additives, improving processing and utility properties of the mortar.

### Properties and method of application

Facade putty for bonding and backfilling of external contact thermal insulation systems. Intended for indoor and outdoor environments. The bonding and backfilling cement is frost-resistant; as a cover backfilling compound, it forms the basic reinforcing layer together with the reinforcing netting.

### Technical parameters

For bonding and backfilling of insulation board materials during the execution of external thermal insulation composite systems (ETICS). Classification according to Appendix 2) of Government Decree No. 163/2002 Coll.

Adhesion to insulator	min. 0.08 MPa/failure in backing
Compression strength CSN EN 1015-11	≥3,5 MPa
Adhesion to concrete	≥0,25 Mpa
Diffusion resistance factor of water vapour $\mu$	≤20
Reaction to fire	class A1
Volume weight of hardened mortar	1 500 kg/m <sup>3</sup>
Heat conductivity factor $\lambda$	≤0,2 W/m·K
Workability time	Max. 6 hour.
Frost resistance (number of cycles)	min. 15
Capillary absorption of water (category W 0)	N/A
INFORMATIVE	
Grain size	0-0,7 mm
Amount of batch water(W/F) for bonding of thermal insulator polyurethane	0,28 l/kg
Bonding consumption	4 – 6 kg/m <sup>2</sup>
Recommended layer thickness for backfilling	4 mm
Consumption in recommended layer (4 mm) – backfilling	5,4 kg/m <sup>2</sup>
Bulk density of dry mortar	1 350 kg/m <sup>3</sup>

### Packaging

The product is supplied on EUR pallets in 25 kg packages. A pallet contains 42 bags per 25 kg =1.050 kg

### Surface preparation

The backing must be dry, load-bearing, hard, without cracks, free of dust and grease; it must not be frozen. Highly-absorbent backings should be provided with diffuse-resistant penetration coating PGM-DIF. Smooth and non-absorbing backings are recommended to be roughened and provided with penetration coating PGM-DIF.

### Work procedure

Pour clean water into a clean mixing vessel and add such an amount of putty that, after thorough mixing, lump-free putty is created. A mixing tool clamped in an electric drill is best for mixing. To stir up 25 kg of bonding mixture for PUR boards, 6,25 liters of water is necessary. After a short setting time (about 15 minutes), repeat mixing once more; you acquire a pasty putty which can be processed slightly for a period max. 6 hours.

### Processing

Apply the putty uniformly on the insulator periphery; create 3 cakes inside the area so that after bonding the contact area makes up at least 40 %. The active tackiness period is about 20 minutes; therefore, only apply the putty on such an area which you can safely cover within this time.

## Reinforcing fabric

Apply putty compound in the specified thickness on the insulation board; smooth the layer and push in the reinforcing netting; cover it and apply another putty layer. The thickness of the reinforcing layer is 4 mm. The reinforcing netting must be embedded 1/2 to 1/3 of the way into the reinforcing layer from the external surface and covered by at least a 1 mm putty layer. After final smoothing of the reinforcing layer, the reinforcing netting must not be exposed (either after any possible unevenness is reground). Backing prepared in this way (after the relevant ageing time according to the climatic conditions) is used for the application of penetration and finishing plaster.

## Caution

**Work must not be done at temperatures air and backing above +25°C and below + 5 °C and if frost is expected.** Freshly applied putty must be protected against quick drying. Admixture of foreign substances is forbidden. The manufacturer bears no responsibility for damage caused by incorrect use of the product. Work must be carried out wearing work gloves. If the skin is stained, wash it with soap and water and treat with emulsion ointment. If the eyes are affected, wash them with clean running water. In case of swallowing or entry into the oral cavity, wash the mouth out with water and drink about two litres of water. In more serious cases, seek medical help.

## Clearing

Before the fresh putty hardens, wipe it off the cladding surface with a foam smoother and wash it with clean water. Hardened putty is to be removed mechanically. Small deposits can be removed with diluted acetic acid (vinegar) or special agents for removing cement coatings.

## Caution

- Subsequent addition of binders, fillers or other additives or screening of the mixture is forbidden
- The mixture can only be processed with air and backing temperature above + 5 °C - +25°C!!! Do not use it if frost is expected!
- During maturation, prevent the reinforcing layer from prematurely drying out and protect it against rain.
- To stir up the mixture, use drinking water or water in conformity with EN' 008:2003.
- Product disposal - plastic packages used should be disposed of at a legal waste dump. Let the unused material harden and dispose of it at a municipal waste dump. The actual agent-waste code 101311. Wastes from other mixed materials not included under numbers 101309 and 101310. Hardened compound - waste code 170904. Mixed building and demolition waste not included under numbers 170901, 170902 and 170903.

## First aid

If health problems occur or when in doubt, seek medical help.

In case of inspiration, place the affected person to fresh air; in case of respiratory problems, seek medical help.

In case of contact with the skin, clean the skin with clean water and soap. Treat irritated places with repair cream.

In case of eye contact, immediately wash the opened eyes with clean running water for 15 minutes and then seek medical help.

In case of swallowing, wash the mouth out with clean water, drink 0.5 litre of water and seek medical help. Do not induce vomiting.

Contact of the product with the skin may induce an allergic reaction. If the symptoms of any affection (irritation) caused by contact with the product do not subside after first aid is administered, seek medical help.

Store out of the reach of children!

## Safety and sanitary regulations: Warning symbol: DANGER

H315 Causes skin irritation  
 H317 May cause an allergic skin reaction  
 H318 Causes serious eye damage  
 H335 May cause respiratory irritation  
 P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P261 Avoid breathing dust  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doktor  
 P302+P352 IF ON SKIN: Wash with plenty of water  
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/ doctor/ if you feel unwell.  
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulation



**Storage**

Store the product in the original package in a dry area - protect it against damage, water action and high relative air humidity. If the given conditions are met, the shelf life is 12 months from the date marked on the package.

**Delivery**

The dry mixture is supplied in paper bags on pallets covered with foil.

**Quality**

Quality is continuously monitored in our laboratories. Assessment of product conformity is ensured by TaZÚS Praha, branch office in Předměřice nad Labem. In production, a production control system is operated and a certified quality management system in conformity with ISO9001 implemented.

**Validity:** From February 2016

In as much as we have no direct influence on the use and processing of the product, we are not responsible for damage caused by its incorrect use.

We reserve the right to make alterations as a result of technical progress.