

INSTRUCTIONS for maintenance and use

for external thermal insulation composite systems

of the line stomixTHERM®

Current information you can find
at: www.stomix.cz

This document includes the external thermal insulation composite systems instructions for a maintenance (hereinafter "ETICS" or "systems") - stomixTHERM®alfa, stomixTHERM®alfa PUR, stomixTHERM®prima with thermal insulation of expanded polystyrene (EPS) and stomixTHERM®beta, stomixTHERM®beta F with thermal insulation of mineral fibre (MW).

The instructions for maintenance are compiled upon current technical knowledge and are updated within the course of time.

The instructions were prepared as a collection of basic instructions. Any case above the range of these instructions should be evaluated individually and consulted with the producer of the system.

I. Determination of maintenance measures

1. Preventive preservative coating

Climatic influences cause strain of external ETICS strata layer. Effective preventive measure for increasing of external strata layer resistance to climatic influences is application of protective coating after 15 - 20 years from system realisation.

With system solution of ETICS stomixTHERM® line the coating is not necessary condition if a long-term use of ETICS after 30 - 40 years from the realisation is not taken into account or other, more fundamental measure changing structural composition of the system is planned.

The ETICS coating prolongs effectively the service life and removes small defects incurred at original realisation.

2. Cleaning by power water

Soiled ETICS final surface treatment - render, render with paint eventually - as a result of influence of polluted environment does not reduce thermal insulation qualities of the system. Its unacceptability is given by a visual influence. The negative visual influence is improved by cleaning with hot power water, eventually by hot water with addition of surface active agents.

3. Repair of mechanical damage

During use an intentional or unintentional mechanical damage of ETICS may occur. Purpose of the measure is to eliminate the damage in order to prevent creation of conditions for relatively quick devaluation of the system by climatic influences and to reach satisfactory appearance in the damaged place.

II. Products and materials for maintenance measures

1. Preventive preservative coating

The following products are determined for realisation of the preventive preservative coating.

- water soluble paints GamaDEKOR® SA and GamaDEKOR® SIL including corresponding penetration coatings.

2. Cleaning by power water

Eventual use of a surface active agent must be agreed with the producer of the ETICS stomixTHERM® line.

3. Repair of mechanical damage

For any repairs always use the same necessary ETICS components that were used with the original application or such ETICS components that the producer of systems of stomixTHERM® line recommends.

The colouring of the final surface treatment always realise in cooperation with service engineer of the ETICS producer upon taking of real sample.

III. Realisation of maintenance measures

1. Preventive preservative coating

Preparation of materials and application is done according to technological instructions for GamaDEKOR® SA and GamaDEKOR® SIL.

2. Cleaning by power water

The cleaning is done by means of pressure cleaning devices by hot power water. Pressure of the water must be adapted to the given conditions - upon realised test of the cleaning in order to prevent damage of the ETICS system. Reduction of the pressure is done by increasing of distance of the nozzle from cleaned surface. Maximal allowed temperature of water is 60°C.

If surface active agents agreed by the ETICS producer are used, its remnants may not remain on the cleaned surface after termination of the cleaning. For that purpose a perfect washing by water is essential.

The cleaning is recommended to be made in summer time. It is not allowed to realise cleaning within the period characterised by frosts.

3. Repair of mechanical damage

In case of a mechanical damage of the system a regular slot containing damage is cut out, usually for complete depth of the thermal insulation. Round min. 10 cm from the slot perimeter carefully remove surface treatment to reinforcement of the base layer. On prepared base attach section of the same type, of thermal insulation of suitable form. After hardening of the adhesive cement an eventual seam between new and original thermal insulation is filled with the same type of the thermal insulating material and if needed it is regrind. Created seams with width above 2 mm are filled with cuttings of the used thermal insulation. Seams to 4 mm width may be filled with PUR foam in case of EPS boards.

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On the flattened surface a new base layer with mesh overlap of min. 10 cm over original reinforcement is consequently applied. An extra attention should be paid to not to rupture the original reinforcement and to keep level of the new base layer with the original one.

After drying up of the new layer the layers of final surface treatment shall be added.

Repair of local damage should be done as soon as possible in order to prevent formation of secondary damage by humidity penetrating through the damaged surface treatment or to prevent extension of the damage.

External thermal insulation contact systems (ETICS) may be used in order to reach saving of thermal energy or for the purpose of reaching of minimal temperature parameters for human activity or stay.

I. Use of ETICS of stomixTHERM® line in order to save thermal energy

Use of ETICS of stomixTHERM® line in order to save thermal energy requires:

1. Measuring and regulation of consumption of thermal energy for heating
2. Modification of the heating system in case of additional heat cladding
3. Observing of purpose of use of the insulated spaces
4. Protection against malicious interventions
5. Observing maintenance instructions

Formation of energetic management is recommended when ETICS is applied in residential buildings.

Measuring and regulation of consumption of thermal energy for heating

Application of ETICS reduces heat passage through building construction. Without possibility of measurement and namely without possibility of regulation of consumption its use have no sense in term of reduction of energy - just grows temperature of internal space.

Modification of heating system

In case of additional heat cladding the hydraulic regulation of the heating system and its verification by stoking test must not be forgotten.

Observing of purpose of use of the insulated spaces

At using of ETICS the original humidity parameters of interior spaces may not be significantly changed with a view to danger of thermal-technical defects - increased condensation of vapour on internal surface of the construction.

Protection against malicious interventions

During use no malicious interventions into ETICS are allowed, for example installation of satellite dishes, racks etc. Any necessary interventions into the system should be done professionally with exclusion of penetration of water into the system and with minimisation of creation of heat bridges.

Observing maintenance instructions

At maintenance observe „Maintenance instructions“ for ETICS of stomixTHERM® line

Implementation of energetic management ensures regular assessment of energy consumption and leads to reaching of supposed savings.

II. Use of ETICS of stomixTHERM® line in order to reach minimal temperature parameters for human activity or stay

Use of ETICS of stomixTHERM® line in order to reach minimal temperature parameters for human activity or stay requires meeting of all requirements mentioned in part I. of these instructions in addition to the measuring and regulation.