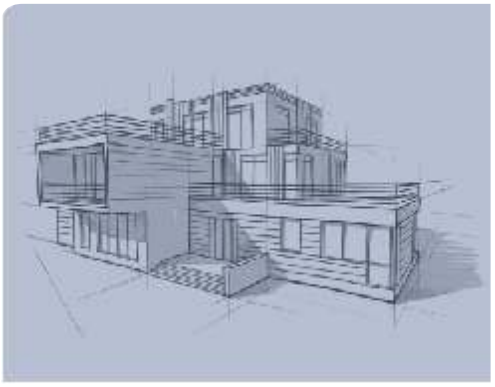
LAKMA® TERM



thermal insulation systems

PRODUCT CATALOGUE

innovation in construction

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Medals and awards

LAKMA SAT is a producer of over 100 cutting-edge and reliable construction chemicals.

Our 25-year experience in production and implementation created a brand which is now synonym of innovation, reliability, and the highest quality of goods offered to our customers.

In the last few years we gained high recognition, and won many prizes and awards mainly for innovative solutions in sprayed structural plasters.

LAKMA was listed among the 500 most cutting-edge companies in Poland, which was certified by the Institute of Economics of Polish Academy of Sciences.

We were also extremely proud to receive the European Technical Approval (ETA) for the LAKMA TERM QEPS thermal insulation system the only one in Europe with an entry describing spray application of plasters.

LAKMA is a member of Thermal Insulation System Association and a member of the Cluster of Energy SavingTechnologies.

STOWARZYSZENIE
NA RZECZ
SYSTEMÓW OCIEPLEŃ

Euro - Centrum
Klaster Technologii Energooszczędnych

Cutting-edge investments

High quality of LAKMA products is a result of cutting-edge manufacturing technologies. Our company uses an advanced and fully automated production line of wet products. LAKMA state-of-the-art technological facility is the place where we produce water-soluble chemicals, e.g. plasters. The automation of the product line enables the goods to be manufactured immediately, and the newest technologies of dosing ingredients, including pigment colour pastes, guarantees a consistent high quality of products.

The automated production line is one of the many investments of LAKMA which influence the speed and quality of customer service. In order to optimize logistics and storage, as well as facilitate product distribution, our company uses the most technologically advanced and fully-automated storage facilities.

Adhesives for thermal insulation systems

The adhesive mortar is used for fastening an insulation layer made of polystyrene foam or mineral wool to the surface.

Placing patching adhesive mortar on a built-in thermal insulation should protect against any mechanical damages, water and humidity penetration, and act as a thermal buffer, i.e. block thermal stresses arising from internal weather conditions.

LAKMA® TERM adhesives were designed to pass the most comprehensive quality tests, which is certified by national and European technical approvals.

Retail outlets will be happy to hear that Syntekol® PSW and Syntekol® Q4 adhesive are very universal, which means you can save on your storage space. Contractors are going to be pleased with the high work comfort, and the final investor will get a safe and durable thermal insulation system which may last even 25 years.

extremely good adhesion

25 **25-year** protection
CONFORMITY WITH ETAG 004

5 **5-year** guarantee
FOR THERMAL INSULATION SYSTEM ACC. TO PRODUCER'S RECOMMENDATIONS

SYNTEKOL® PS
adhesive mortar for polystyrene foam

SYNTEKOL® PS is a grey adhesive mortar enhanced with resins and seam sealers used for cementing insulation plates from polystyrene foam in LAKMA® TERM ST and LAKMA® TERM QEPS thermal insulation systems. The product is easy to use, has a long open time, fast strength increase rate, extremely high preliminary adherence, high frost resistance, and flexibility.

APPLICATION
SYNTEKOL® PS is designed for installing thermal insulation plates in LAKMA® TERM ST and LAKMA® TERM QEPS thermal insulation systems. The mortar may also be used for fitting small architectural elements, filling small defects, and repairing damages of exterior elements done in ETICS technology. SYNTEKOL® PS may be sued for both exteriors and interiors.

FEATURES
- Excellent adherence
- High strength
- Easy to use

Application technique	Proper water amount	Efficiency for fitting polystyrene foam plates	Application temperature	Open time (from application to fitting plates)	Hardening time	Ready time to work (from adding water)
Long float, trowel	4–5 litres/25 kg	4–5 kg/m²	+5°C to +25°C	up to 20 minutes	from 12 to 48 hours	up to 2 hours

SYNTEKOL® PSW
universal adhesive mortar

SYNTEKOL® PSW is a grey, high-grade, factory-mixed adhesive mortar enhanced with resins and microfibers used for creating the reinforcing layer in thermal insulation systems, and cementing polystyrene foam and mineral wool insulation plates.

APPLICATION
SYNTEKOL® PSW is designed to create the reinforcing layer, and fit thermal insulation plates in all LAKMA® TERM thermal insulation systems. It may serve as a substrate for LAKMA® acrylic, silicate, silicone and silicate, silicone, and mineral thin-coat plasters. The mortar may also be used for fitting small architectural elements, filling small defects, and repairing damages of exterior elements done in ETICS technology. SYNTEKOL® PSW may be applied also to smooth substrates done earlier from thin-coat mineral or resin plasters. SYNTEKOL® PS may be sued for both exteriors and interiors.

FEATURES
- Extremely high resistance to mechanical damages
- High flexibility
- Easy application and smoothing damages
- Perfect for spray-on application

Application technique	Proper water amount	Efficiency for fitting insulation plates	Efficiency for creating reinforcing layer	Application temperature	Open time (from application to fitting plates)	Hardening time	Ready time to work (from adding water)
Long float, trowel, spray-on method	5–6 litres/25 kg	4–5 kg/m²	3.5-5 kg/m²	+5°C to +25°C	up to 20 minutes	from 12 to 48 hours	up to 2 hours

SYNTEKOL® Q4
universal adhesive mortar

SYNTEKOL® Q4 is an ultra-light adhesive mortar enhanced with resins and cutting-edge seam sealers used for creating the reinforcing layer in thermal insulation systems, and cementing polystyrene foam and mineral wool insulation plates.

APPLICATION
SYNTEKOL® Q4 is designed to create the reinforcing layer, and fit thermal insulation plates in all LAKMA® TERM thermal insulation systems. It may serve as a substrate for LAKMA® acrylic, silicate, silicone and silicate, silicone, and mineral thin-coat plasters. The mortar may also be used for fitting small architectural elements, filling small defects, and repairing damages of exterior elements done in ETICS technology. SYNTEKOL® Q4 may be applied also to smooth substrates done earlier from thin-coat mineral or resin plasters. SYNTEKOL® Q4 may be sued for both exteriors and interiors.

FEATURES
- Easy to use
- Long open time
- Fast strength increase rate
- Extremely high preliminary adherence
- High frost resistance and flexibility
- High efficiency
- Perfect for finishing singular-layer walls from gas aerated clay

Application technique	Proper water amount	Efficiency for fitting insulation plates	Efficiency for creating reinforcing layer	Application temperature	Open time (from application to fitting plates)	Hardening time	Ready time to work (from adding water)
Long float, trowel, spray-on method	5.5–6.5 litres/25 kg	4–5 kg/m²	3.5–4.5 kg/m²	+5°C do +25°C	up to 20 minutes	from 12 to 48 hours	up to 2 hours

POROLIT® PU
poliurethane adhesive for polystyrene foam

POROLIT® PU is a low-pressure, single component polyurethane in a version with an gun applicator used for adhering polystyrene foam plates and XPS plates in insulating exterior walls of buildings.

APPLICATION
POROLIT® PU is designed to fit polystyrene foam plates and XPS plates for insulating exterior walls of buildings, polystyrene foam boxes, wall panels, installing window sills, and filling cracks in thermal insulation. POROLIT® PU is characterized by excellent adherence to concrete, ceramic, wood, as well as PVC, all kinds of polystyrene foams, and plasters. After 2 hours from cementing you may start sanding and pinning.

FEATURES
- Easy and convenient to use
- Facilitates work connected to thermal insulation of buildings
- Excellent adherence to concrete
  mineral, ceramic, plaster, and other substrates
- Used in a wide range of temperatures
- One may be used to insulate an 8m² area

Application technique	Efficiency for fitting insulation plates	Application temperature	Open time (from application to fitting plates)	Hardening time
Gun applicator	ca. 8 m²/750 ml	+5°C to +25°C	up to 10 minutes	after 2 hours

Sprayed structural plasters

LAKMA® TERM sprayed solutions are an innovative form of applying plasters, adhesives, and primers by means of specialty set of spraying devices.

LAKMA® is the first Polish company to introduce a complete and fully professional system which consists of Porolit specialty plasters comprising of ultralight volcanic-based seam sealers, proper spraying devices, and the necessary know-how of the customer service.

18 **18m²** of efficiency
FOR PLASTERS 1.5 mm IN SPRAY ON APPLICATION

25 **25-year** protection
CONFORMITY WITH ETAG 004

5 **5-year** guarantee
FOR THERMAL INSULATION SYSTEM ACC. TO PRODUCER'S RECOMMENDATIONS

The features of the LAKMA Term spray system:

Material saving
Up to 100% higher efficiency with Porolit plasters
in comparison to traditional plasters applied by a long float

Faster application (up to three times)
Plaster does not need scouring

Clean exteriors for longer periods
Even deposition of dirt

Perfect structural look
without any tool-movement marks

Less people needed for plaster works
You need only two people to finish a building
with an area of ca. 300 m² in 8 hours*

Plastering difficult spots,
e.g. ceilings, rustication, cornices, etc.

Fitting additional decorative elements
coloured quartz, reflective glass beads,
metallic chips, brocade

* Bearing in mind that walls are made ready for plastering. Plaster application with two sets of plastering devices

Why choose LAKMA TERM spray system?

- Special recipe for plaster based on light seam sealers guarantees perfect adherence of the material to the substrates, and double efficiency in comparison to traditional plasters.
- Sets of plastering devices designed strictly for structural plasters guarantee special comfort, efficiency, and continuity. Guns from competitive companies were made for sprayed wall-covering this is why the flow of plaster in them results in valve throat clogging, and single-piston compressors are not fast enough.
- Plasters are available in a wide variety: mineral, acrylic, silicone and silicate, and silicone.
- Constant technical and trade support is there to help you with any problems you may have on-site with the equipment. LAKMA® technical advisors are available 24/7 for contractors.
- LAKMA® guarantees access to sets of plastering devices for contractors who purchase LAKMA® TERM plasters. Set of devices are available at retail outlets.

POROLIT® QM
mineral sprayed plaster

POROLIT® QM is the newest generation of dry fleece texture plaster mortar based on selected aggregates, white cement, hydrated lime, and ultralight volcanic seam sealers. The main difference between POROLIT® QM and traditional mineral plaster mortars is the incorporation of ecological and ultralight seam sealers, which make our product even 100% more efficient from the traditional solutions.make our product even 100% more efficient from the traditional solutions. It main features are high vapour-permeability and adherence. We recommend this product for LAKMA® TERM spray plastering technique.

APPLICATION

POROLIT® QM is used for decorative, thin-coat plaster coating both for interiors (ceilings and other surfaces not exposed to mechanical damages), as well as exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, LAKMA® TERM QEPS, LAKMA® TERM WM SUFIT thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars. POROLIT® QM applied by means of a long float is also used for a rustic finish for inner walls.

FEATURES

- Up to 100% more efficient than the traditional mineral plasters
- Vapour-permeable
- Resistant to weather conditions
- Natural protection against mildew and mould

Efficiency

Grain thickness – fleece structure	Long float	Spraying technique
1.5 mm	1.40 to 1.50 kg/m²	1.40 to 1.50 kg/m²
2.0 mm	1.60 to 1.70 kg/m²	1.55 to 1.60 kg/m²

Application	Proper amount of water	Open time	Limit life	Full binding time	Application temperature	Colour
STANDARD GUN or PROFI GUN sets, Long float for achieving a rustic effect	7–9 litres/25 kg	up to 15 minutes	up to 1 hours	ca. 72 hours	+5°C to +25°C	white

POROLIT®
acrylic sprayed plaster

POROLIT® is the newest generation of polymer, non-flammable, and ecologically harmless fleece structure plaster compound. Innovative technology and unique recipe makes POROLIT® a plaster of extremely low specific weight, which fits perfectly into using it in the LAKMA® TERM spraying method. Excellent retention storage of water influences the length of its open time, which makes it possible to plaster without hurry. This designed technology gives contractors great work comfort, and creates surfaces of great decorative qualities with little effort.

APPLICATION

POROLIT® is used for decorative, thin-coat plaster coating both for interiors (ceilings and other surfaces not exposed to mechanical damages), as well as exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, LAKMA® TERM QEPS thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars.

FEATURES

- Up to 100% more efficient than the traditional acrylic plasters
- The only vapour-permeable acrylic plaster on the market
- Resistant to weather conditions
- Thermal insulation of our products is three times better than the traditional acrylic plasters

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour	Grain thickness	Spray-on method efficiency
STANDARD GUN or PROFI GUN sets	300 to 700 ml/25 kg	8 to 12 hours	ca. 7 days	+5°C to +25°C	58 LAKMA colours, 200 NCS colours, non-standard colours on demand	1.5 mm 2.0 mm	1.40 to 1.50 kg/m² 1.55 to 1.65 kg/m²

POROLIT® S
silicate and silicone sprayed plaster

POROLIT® S is the cutting-edge silicate and silicone fleece structure plaster compound which is produced on based on potassium silicate, silicone resin emulsion, and water dispersion of acrylic resin. The main difference between POROLIT® S and a traditional plaster mortar is the incorporation of ecological and ultralight seam sealers, which make our product even 100% more efficient from the traditional solutions. The main characteristic of the compound is high vapour-permeability, adherence, flexibility, and high resistance to weather conditions and dirt.

APPLICATION
POROLIT® S is used for decorative, thin-coat plaster coating both for interiors (ceilings and other surfaces not exposed to mechanical damages), as well as exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, LAKMA® TERM WM thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars. The product is especially recommended for LAKMA® TERM sprayed plastering in places of heightened air humidity and lush greenery.

FEATURES
- Up to 100% more efficient than the traditional silicone and silicate plasters
- Vapour-permeable
- Self-cleaning
- Increased resistance against mildew and mould

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour	Grain thickness	Spray-on method efficiency
STANDARD GUN or PROFI GUN sets	300 to 700 ml/25 kg	8 to 12 hours	ca. 7 days	+5°C to +25°C	58 LAKMA colours, 200 NCS colours, non-standard colours on demand	1.5 mm 2.0 mm	1.40 to 1.50 kg/m² 1.55 to 1.65 kg/m²

POROLIT® QS
silicone sprayed plaster

POROLIT® QS is the cutting-edge silicone fleece structure plaster compound. The main difference between POROLIT ® QS and traditional plaster mortars is the incorporation of ecological and ultralight seam sealers, which make our product even 100% more efficient from the traditional solutions. The main characteristic of the compound is high vapour-permeability and adherence. It is also self-cleaning, and due to its hydrophobic quality (no water absorption), the surfaces remain clean and aesthetic for long.

APPLICATION
POROLIT® QS is used for decorative, thin-coat plaster coating both for interiors (ceilings and other surfaces not exposed to mechanical damages), as well as exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, LAKMA® TERM WM, and LAKMA TERM® QEPS thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars. The product is especially recommended for LAKMA® TERM sprayed plastering in places of heightened air pollution.

FEATURES
- Up to 100% more efficient than the traditional silicone plasters
- Vapour-permeable
- Special resistance to weather conditions

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour	Grain thickness	Spray-on method efficiency
STANDARD GUN or PROFI GUN sets	300 to 700 ml/25 kg	8 to 12 hours	ca. 7 days	+5°C to +25°C	58 LAKMA colours, 200 NCS colours, non-standard colours on demand	1.5 mm 2.0 mm	1.40 to 1.50 kg/m² 1.55 to 1.65 kg/m²

Thin-coat structural plasters

Structural plasters are used for decorative and protective purposes, like finishing walls and ceilings both in the interiors and exteriors.

LAKMA® TERM system comes in all types of colours, structures, grain thickness, and it can be grouped by the type of application: traditional (by means of trowels or long floats) or spray-on (by means of special sets of plastering devices).

Depending on the location of the plastered building, the preferences of the contractor or the investor, LAKMA® offers silicone, acrylic, silicate, silicone and silicate, as well as mineral plasters.

Each of the above-mentioned products is resistant to mildew and mould, as well as harsh weather conditions.

resistance to mould and mildew

25 **25-year** protection
CONFORMITY WITH ETAG 004

5 **5-year** guarantee
FOR THERMAL INSULATION SYSTEM ACC. TO PRODUCER'S RECOMMENDATIONS

AKRYLTYNK®
thin-coat acrylic plaster

AKRYLTYNK® is an ecologically harmless plaster compound with a fleece structure (Z) or a pitted structure (K). The product has remarkable adherence to most substrates used in construction, giving durable and decorative covering for lots of surfaces depending on the way of their finish. Structural plasters AKRYLTYNK® Z and AKRYLTYNK® K are resistant to weather conditions, mechanical damage, and thermal stresses. They do not need to painted, and they perfectly cover small scuff marks.

APPLICATION

AKRYLTYNK® is used for decorative, thin-coat plaster coating both for interiors, as well as exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, and LAKMA® TERM QEPS thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars.

FEATURES

- High resistance to weather conditions
- Extremely high resistance to mechanical damages
- Wide range of textures and grain thickness
- Sprayed-on application
- High resistance to mildew and mould

Efficiency

Grain thickness – fleece structure	Long float	Spray-on method
1.0 mm	1.60–1.90 kg/m²	1.50–1.70 kg/m²
1.5 mm	2.30–2.60 kg/m²	1.90–2.20 kg/m²
2.0 mm	2.90–3.20 kg/m²	2.20–2.50 kg/m²
2.5 mm	3.30–3.60 kg/m²	-
3.0 mm	3.60–3.90 kg/m²	-

Efficiency

Grain thickness – pitted structure	Long float	Spray-on method
1.5 mm	2.00–2.20 kg/m²	-
2.0 mm	2.70–3.00 kg/m²	-
2.5 mm	3.00–3.30 kg/m²	-
3.0 mm	3.50–3.80 kg/m²	-

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour
Long float, STANDARD GUN set	to 300 ml/25 kg	6 to 8 hours	ca. 48 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

TYNKSIL® S
thin-coat silicone and silicate plaster

TYNKSIL® S is a high quality decorative, colourful plaster compound produced on a selected water dispersion of silicone and sodium silicate with the addition of mineral seam sealers, pigments, and modifiers. Our product has excellent decorative value, high vapour-permeability, and great resistance to weather conditions.

APPLICATION

TYNKSIL® S is a cutting-edge, silicone and silicate plaster compound used for decorative, thin-coat plaster coating both for interiors and exteriors. It was designed for protective and decorative cladding in LAKMA® TERM WM thermal insulation system, and substrates of cement-based, cement and lime, concrete, and other mortars. The product is especially recommended for LAKMA® TERM sprayed plastering in places of heightened air humidity and lush greenery.

FEATURES

- Highly vapour-permeable
- Increased resistance against mildew and mould
- High resistance to weather conditions
- Self-cleaning

Efficiency

Grain thickness - fleece structure	Long float
1.5 mm	2.30–2.60 kg/m²
2.0 mm	2.90–3.20 kg/m²
2.5 mm	3.30–3.60 kg/m²
3.0 mm	3.60–3.90 kg/m²

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour
Long float	to 300 ml/25 kg	6 to 8 hours	ca. 48 hours	+5°C to +25°C	63 LAKMA colours, 380 NCS colours, non-standard colours on demand

TYNKSIL®
thin-coat silicate plaster

TYNKSIL® is a high quality decorative, colourful plaster compound produced on a selected acrylic and potassium sodium silicate water dispersion with the addition of mineral seam sealers, pigments, and modifiers. Our product has excellent decorative value, high vapour-permeability, and great resistance to weather conditions.

APPLICATION

TYNKSIL® is a cutting-edge silicate plaster compound used for decorative, thin-coat plaster coating both for interiors and exteriors. It was designed for protective and decorative cladding in LAKMA® TERM WM thermal insulation system, and substrates of cement-based, cement and lime, concrete, and other mortars. We recommend this product for plastering spots that may be infected by algae, like e.g. shaded places and lush greenery.

FEATURES

- Extremely vapour-permeable
- Naturally resistant to algae and mould
- High resistance to weather conditions

Efficiency

Grain thickness – fleece structure	Long float
1.5 mm	2.30–2.60 kg/m²
2.0 mm	2.90–3.20 kg/m²
2.5 mm	3.30–3.60 kg/m²
3.0 mm	3.60–3.90 kg/m²

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour
Long float	to 300 ml/25 kg	6 to 8 hours	ca. 48 hours	+10°C to +25°C	63 colours LAKMA, 380 colours NCS, colours non-standard ones on demand

TYNKSIL® QS
thin-coat silicone plaster

TYNKSIL® QS is the cutting-edge silicone fleece structure or pitted structure plaster compound. Due to reinforcing microfibers and the cutting-edge formula, TYNKSIL® QS is resistant to weather conditions and aggressive environmental events. By using the top quality silicone resins, we made it water-proof and dirt-proof (self-cleaning), at the same time keeping it vapour-permeable. The product may be applied both traditionally (by means of a trowel or a long float), as well as with the LAKMA® TERM spraying technique.

APPLICATION

TYNKSIL® QS is used for decorative, thin-coat plaster coating both for interiors and exteriors. It was designed for protective and decorative cladding in LAKMA® TERM ST, LAKMA® TERM WM, and LAKMA® TERM QEPS thermal insulation systems, and substrates of cement-based, cement and lime, concrete, and other mortars. The product is especially recommended for plastering in places of heightened air pollution.

ZALETY

- Highly flexible
- Vapour-permeable
- Self-cleaning
- Special resistance to weather conditions

Efficiency

Grain thickness – fleece structure	Long float	Spray-on method
1.5 mm	2.30–2.60 kg/m²	1.90–2.20 kg/m²
2.0 mm	2.90–3.20 kg/m²	2.20–2.50 kg/m²
2.5 mm	3.30–3.60 kg/m²	-
3.0 mm	3.60–3.90 kg/m²	-

Efficiency

Grain thickness pitted structure	Long float	Spray-on method
1.5 mm	2.00–2.20 kg/m²	-
2.0 mm	2.70–3.00 kg/m²	-
2.5 mm	3.00–3.30 kg/m²	-
3.0 mm	3.50–3.80 kg/m²	-

Application technique	Proper water amount	Drying time	Full hardening time	Application temperature	Colour
Long float, STANDARD GUN set	to 300 ml/25 kg	6 to 8 hours	ca. 48 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

MINERALTYNK Q
mineral thin-coat plaster

MINERALTYNK Q is a white, factory-mixed, dry mortar based on selected aggregates, white cement, and hydrated lime, which is great for resisting water and has high vapour-permeability. It comes in two types: fleece structure and pitted structure.

APPLICATION
MINERALTYNK Q is designed for making decorative thin-coat plaster coatings on all mineral substrates, such as concrete, cement and lime plasters, both for interiors and exteriors. It is also perfect for making plasters for finishing exteriors in LAKMA® TERM thermal insulation systems. In order to get coloured exteriors, we recommend painting plasters with SILMAL ST, SILMAL SN, SILMAL SN REPAIR, AKRYL FASADA or FASMAL paints.

FEATURES
- Highly vapour-permeable
- High resistance to weather conditions
- Natural protection against mildew and mould

Efficiency

Grain thickness	fleece structure	pitted structure
1.5 mm	2.5 kg/m²	2.5 kg/m²
2.0 mm	3.0 kg/m²	3.0 kg/m²
3.0 mm	4.0 kg/m²	4.0 kg/m²

Application technique	Proper water amount	Time open	Time of life	Full binding time	Application temperature	Colour
Long float, trowel	6–7 litres/25 kg	to 15 minutes	to 1 hours	ca. 72 hours	+5°C to +25°C	white

AKRYLTYNK M
mosaic acrylic plaster

AKRYLTYNK® M is a cutting-edge mosaic plaster compound produced on the basis of acrylic resin, and high quality quartz aggregates. The plaster is extremely resistant to weather conditions, mechanical damages, and thermal stresses.

APPLICATION
AKRYLTYNK® M is designed for making thin-coat, decorative plaster cladding for interiors and exteriors of buildings, especially for covering fragments which are under heavy stress, e.g. pedestals, hallways, staircases.

FEATURES
- Easy application
- High resistance to weather conditions
- Extremely high resistance to mechanical damages
- Wide variety of colours

Packages	Efficiency	Colour scheme	Application technique	Application temperature
12 kg; 25 kg	1.0 mm – 3.0 kg/m² 1.5 mm – 4.5 kg/m²	56 standard compositions, non-standard colours	Steel long float	+5°C to +25°C

AKRYLTYNK M
colour palette


M/DB1 + silver brocade


M/DC1 + gold brocade


M/E1


M/DB2 + hologram silver brocade


M/DC2 + hologram gold brocade


M/E2


M/DB3


M/DC3


M/E3


M/DB4


M/DC4


M/E4


M/EA1


M/EB1


M/EC1


M/EA2


M/EB2


M/EC2


M/EA3 + brown mica


M/EB3

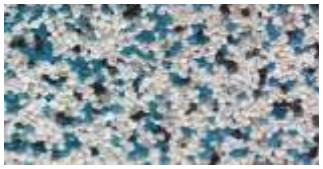
AKRYLTYNK M
colour palette


M/EC3


M/EA4


M/EB4


M/EC4


M/AB1


M/AB2


M/AB3


M/P10


M/Z1


M/O1


M/O2


M/B10


M/C1


M/C2


M/O30


M/B20


M/CR1


M/CR2


M/CR3

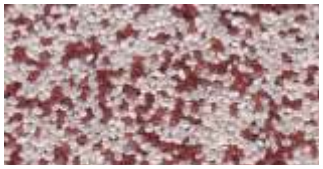

M/ZC1


M/P2


M/P3


M/D1


M/D2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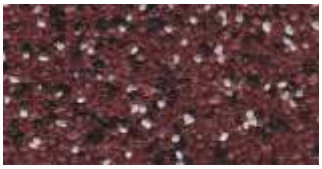

M/CT2


M/D3


M/D4


M/B3


M/B4

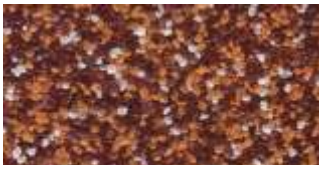

M/DA1


M/DA2


M/ZC2


M/ZC3


M/DA3


M/DA4

* THE PRESENTED SAMPLES ARE ONLY A VISUAL HELP

PAINTS, PLASTERS
colour palette

128-20	114-10 □	121-10 ○□	125-20	114-20	110-10 ○□
130-20	118-30	117-10 □	127-20	124-10 ○□	115-05 ○□
140-40	118-20	111-10 ○□	126-10 ○□	118-05 ○□	113-05 ○□
127-30	111-20	118-10 □	132-40	111-30	119-10 □
113-10 ○□	125-10 ○□	115-10 ○□	127-10 ○□	116-05 ○□	112-05 ○□
124-30	129-20	129-10 □	116-30	113-20 □	111-05 ○□
121-20	133-20 ○	116-10 ○□	136-20	113-30	134-20 □
123-20 ○	131-10 ○□	110-30 ○□	145-40	129-40	117-05 ○□

Colours marked as ○ are unavailable for Tynksil, Tynksil S, Porolit S plasters, and the Silmal ST silicate paint.
Colours marked as □ are unavailable for Porolit, Porolit S, and Porolit QS plasters.
LAKMA does not recommend using colours from groups "05" and "10" for whole-wall use.

114-30 ○	110-20 ○	114-05 ○□	120-20 ○	122-10 ○□	110-05 ○□
144-40	119-20	125-30 □	133-40	112-30	116-20 □
142-40	122-20	117-20 □	119-30	124-20 ○□	123-10 ○□
141-40	126-30	123-30 □	138-40	134-40	120-30
137-40	128-40	131-20 ○□	122-30	115-20 ○□	112-10 ○□
136-40	117-30	137-20 □	130-40	126-20	120-10 □
115-30	121-30	132-10 □	131-40	132-20	128-10 ○□
139-40	135-20	130-10 □	143-40	135-40	112-20

This colour well includes 96 colours divided into 5 colour groups —
marked by the last two digits: "05," "10," "20," "30," "40." The presented samples are only a visual help.

Exterior paints

Exterior paints have two basic functions: protective and decorative. Their basic, technical task is to protect the substrate against the destructive weather conditions mainly heavy rain due to our geographical reality. As water is the main cause for defects in construction, the protective function is based mainly on preventing water absorption by the material.

LAKMA® TERM paints are available in a few hundred colours acc. to the LAKMA® colour system. Depending on location of the investment and the type of the substrate, our company offers silicone, silicate, and acrylic paints, as well as a silicone paint with microfibers for padding.

The appropriate combination of raw materials makes our paints extremely high resistant to weather conditions, such as e.g. rain, frost or UV radiation.

high covering strength

25 **25-year** protection
CONFORMITY WITH ETAG 004

5 **5-year** guarantee
FOR THERMAL INSULATION SYSTEM ACC. TO PRODUCER'S RECOMMENDATIONS

SILMAL® ST
silicate exterior paint

SILMAL® ST is a silicate paint, based on potassium silicate with an addition of hydrophobic agents. It creates a well-covering layer, with an extremely good vapour-permeability while at the same being preventing absorption of air humidity. The paint is resistant to changeable weather conditions, UV radiation, pollution, as well as algae, mildew, and mould.

APPLICATION
SILMAL® ST is designed for decorative and protective painting of only mineral substrate of exteriors. It is especially recommended for primary and renovation painting of mineral plaster cladding, such as: concrete, cement plasters, cement and lime plasters, mineral and silicate thin-coat plasters, and renewing old, dank mineral substrates (restoration of monuments).

FEATURES
- Highly vapour-permeable
- Naturally resistant to algae and mould
- High resistance to weather conditions
- Extremely good substrate covering
- Mineral character of the layer

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, roller, spray	2	6 to 8 m²/litre	4–6 hours	+10°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

SILMAL® SN
silicone exterior paint

SILMAL® SN is a silicone paint based on a combination of a silicone resin emulsion and an acrylic dispersion. It creates an extremely-well-covering layer, with an extremely good vapour-permeability while at the same being preventing absorption of air humidity. The paint is resistant to changeable weather conditions, UV radiation, pollution, as well as algae, mildew, and mould.

APPLICATION
SILMAL® SN is designed for decorative and protective painting of most of substrates used in construction nowadays, and renewing old substrates, such as cement and lime plasters, cement plasters, concrete, mineral plasters, acrylic plasters, silicate plasters, silicone and silicate plasters, as well as silicone plasters. It is especially recommended for painting old buildings exposed to unfavourable weather conditions.

FEATURES
- Highly vapour-permeable
- Extremely high hydrophobicity
- High resistance to weather conditions
- Extremely good substrate covering
- High resistance to dirt

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, roller, spray	2	6 to 8 m²/litre	4–6 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

SILMAL® SN REPAIR
silicone exterior renewal paint

SILMAL® SN REPAIR is a silicone microfiber restoration paint based on a combination of a silicone resin emulsion and an acrylic dispersion. It creates an extremely-well-covering layer characterized by very high vapour-permeability and high mechanical performance. The paint is efficient at protecting against humidity, changeable weather conditions, as well as UV radiation, and pollution. The layer of SILMAL® SN REPAIR is resistant to algae, mildew, and mould. It also fills and covers hair cracks in the finishing layer of the exterior plasters.

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SILMAL® SN REPAIR is designed for renovating exteriors, renewing by painting of exteriors covered with the LAKMA® TERM ST/LAKMA® TERM WM jointless thermal insulation system, as well as renewing cement, cement and lime, concrete substrates, and mineral or acrylic plasters. It is especially recommended for painting old buildings exposed to unfavourable weather conditions.

FEATURES

- Highly vapour-permeable
- Extremely high hydrophobicity
- Bridging hair cracks and scuff marks on the exteriors
- High resistance to weather conditions
- Extremely good substrate covering
- High resistance to dirt
- High resistance to biological corrosion

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry, brush roller, spray	2	6 to 8 m²/litre	4–6 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

AKRYL FASADA
acrylic exterior paint

AKRYL FASADA is a cutting-edge, ecological exterior paint. It creates a smooth, matt coating, resistant to changeable weather conditions and UV radiation. AKRYL FASADA has extremely good adherence to most substrates used in construction.

APPLICATION
AKRYL FASADA is designed for decorative and protective painting of most of substrates used in construction, such as cement and lime plasters, cement plasters, concrete, mineral plasters, acrylic plasters, silicate plasters, silicone and silicate plasters, as well as silicone plasters. If applied well, AKRYL FASADA acrylic paint becomes a highly decorative protection for building exteriors.

FEATURES
- High resistance to weather conditions
- Extremely good substrate covering
- Low surface soaking
- High resistance to dirt

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, roller, spray	2	6 to 8 m²/litre	4–6 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

PRIMERS

Primers are liquid or half-liquid compounds considered to be the basis of most finishing works. It is vital to select a primer according to the selected finishing material (plaster or paint), and bear in mind the type of joint used.

The main task of LAKMA® TERM primers is to decrease and level the absorbency of a substrate, creating the necessary adherence, and facilitating plaster and paint application. Additional features of the compound is the strength of coating, easiness of application, high efficiency, and lack of delamination even in prolonged storage periods. Primers for structural plasters are available in the LAKMA® colouring system.

high covering strength

25 **25-year** protection
CONFORMITY WITH ETAG 004

5 **5-year** guarantee
FOR THERMAL INSULATION SYSTEM ACC. TO PRODUCER'S RECOMMENDATIONS

AKRYL P
priming agent for acrylic plasters

AKRYL P is a water-soluble priming agent on the basis of acrylic dispersion. It is one of the ingredients of the LAKMA® TERM thermal insulation system. The product is available in colours matching the palette of AKRYLTYNK® Z, K, and M, as well as POROLIT® plasters.

APPLICATION
AKRYL P is designed for priming construction substrates before protecting them with AKRYLTYNK® Z, K, and M, as well as POROLIT® plasters. Its task is to decrease the absorbency of a substrate, and at the same time enhance its strength, as well as creating the necessary adherence between the plaster and the substrate. The used primer with a colour matching the one of the plaster makes it possible to cover the greyness of the adhesive used in LAKMA® TERM thermal insulation systems.

FEATURES
- Extremely good substrate covering
- No delamination
- Enhancing adherence of the plaster coating
- Limits and levels the absorbency of the base

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, spray	1 to 2	0.3 kg/m²	12 hours	+5°C to +25°C	96 LAKMA colours, 380 NC colours, non-standard colours on demand

TYNKSILGRUNT
priming agent for mineral, silicate, and silicone and silicate plasters

TYNKSILGRUNT is a water-soluble sodium silicate primer, which comes as one of the components of the LAKMA® TERM thermal insulation system. The primer is available in the colour scheme matching the palette of TYNKSIL, TYNKSIL S, POROLIT S, and POROLIT QM plasters.

APPLICATION
TYNKSILGRUNT is designed to prime construction substrates before covering the with a protection layer of TYNKSIL, TYNKSIL S, POROLIT S or POROLIT QM plasters. Its task is to decrease the absorbency of a substrate, and at the same time enhance its strength, as well as creating the necessary adherence between the plaster and the substrate. The used primer with a colour matching the one of the plaster makes it possible to cover the greyness of the adhesive in the reinforcing layer used in LAKMA® TERM thermal insulation systems.

FEATURES
- Extremely good substrate covering
- No delamination
- Enhancing adherence of the plaster coating
- Limits and levels the absorbency of the base

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, spray	1 to 2	0.3 kg/m²	12 hours	+5°C to +25°C	LAKMA colouring system, 380 NCS colours, non-standard colours on demand

TYNKSILGRUNT Q
priming agent for silicone plasters

TYNKSILGRUNT Q is a water-soluble potassium silicate primer, which comes as one of the components of the LAKMA® TERM thermal insulation system. The primer is available in the colour scheme matching the palette of TYNKSIL QS, POROLIT® QS, and TYNKSIL QS REPAIR plasters.

APPLICATION
TYNKSILGRUNT Q TYNKSILGRUNT Q is designed to prime construction substrates before covering them with a protection layer of TYNKSIL QS, POROLIT® QS, and TYNKSIL QS REPAIR plasters. Its task is to decrease the absorbency of a substrate, and at the same time enhance its strength, as well as creating the necessary adherence between the plaster and the substrate. The used primer with a colour matching the one of the plaster makes it possible to cover the greyness of the adhesive in the reinforcing layer used in LAKMA® TERM thermal insulation systems.

FEATURES
- Extremely good substrate covering
- No delamination
- Enhancing adherence of the plaster coating
- Limits and levels the absorbency of the base

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, spray	1 to 2	0.3 kg/m²	12 hours	+5°C to +25°C	96 LAKMA colours, 380 NCS colours, non-standard colours on demand

AKRYL G
priming agent for acrylic exterior paints

AKRYL G is a polymer-dispersed water-soluble compound with an addition of modifiers. The primer penetrates the substrate, levels its absorbency, enhances adherence of paint, strengthens, and prevents dusting.

APPLICATION
AKRYL G is used for preliminary priming of soaked surfaces, such as: aerated concrete, calcareous mortars, cement-based mortars, concretes, and plaster and cardboard bases. It is advisable to use it before using acrylic paints (EKOBIEL, AKRYL W, TOP AKRYL, FASMAL, AKRYL FASADA), emulsion paints, before wallpapering or adhering tiles. It may also be used for varnishing wallpapers and cork lining in order to achieve a better surface washability.

FEATURES
- High penetrating properties
- Decreases surface dustiness
- Increases surface strength
- Limits and levels the absorbency of the base
- Wide ranges of applications

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, roller, spray	1 to 2	6 to 10 m²/litre	2 hours	+5°C to +25°C	transparent

SILMALGRUNT ST
priming agent for silicate exterior paints

SILMALGRUNT ST is a colourless potassium silicate agent for strengthening any external mineral construction substrates, and for preparing a proper substrate for the SILMAL ST silicate exterior paint.

APPLICATION
SILMALGRUNT ST is designed for surface strengthening of concrete substrates, cement screeds, cement, cement and lime, and lime plasters, as well as raw surfaces made of bricks, blocks, hollow tiles, and other ceramic or sand and lime materials or thin-coat mineral or silicate plasters. Caution: You should not use the primer on substrates covered with plastic-based plasters or paint coatings.

FEATURES
- Highly vapour-permeable
- Decreases surface dustiness
- Increases surface strength
- Limits and levels the absorbency of the base
- Enhances adherence of the paint coating

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, roller, spray	1 to 2	4 to 6 m²/litre	2 hours	+5°C to +25°C	transparent

SILMALGRUNT SN
priming agent for silicone exterior paints

SILMALGRUNT SN is a colourless water-soluble acrylic and silicone resin-based agent for strengthening any external mineral construction substrates, and for preparing a proper substrate for the SILMAL SN silicone exterior paint.

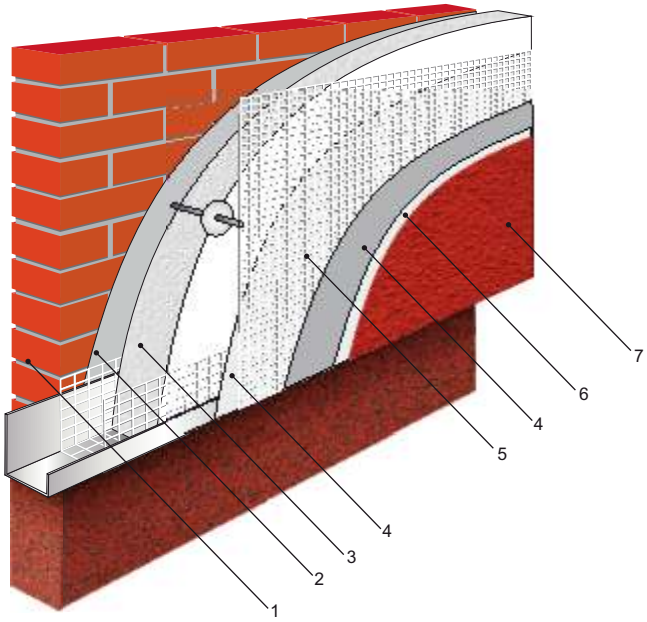
APPLICATION
SILMALGRUNT SN is designed for surface strengthening of concrete substrates, cement screeds, cement, and cement and lime plasters or thin-coat mineral or silicate plasters. It should be used to prime substrates coated with plastic-based compounds, such as acrylic or silicone paints and plasters.

FEATURES
- High vapour-permeability and hydrophobicity
- Protects against stains and efflorescence
- Decreases surface dustiness
- Increases surface strength
- Limits and levels the absorbency of the base
- Enhances adherence of the paint coating

Application technique	Number of layers	Efficiency at single layer	Drying time	Application temperature	Colour
Paint brush, masonry brush, spray	1 to 2	0.3 kg/m²	12 hours	+5°C to +25°C	transparent

SYSTEM LAKMA TERM ST, LAKMA TERM QEPS

LAKMA® TERM ST and **LAKMA® TERM QEPS** thermal insulation systems are types of the ETICS technique. It is based on attaching a layered insulation system from the exterior, which consists of polystyrene foam plates as the thermal insulation, and the cladding is done from thin-coat plasters put on an earlier prepared reinforcing layer. The LAKMA® TERM system is used for already existing buildings but also new ones to provide the optimal heating comfort, and proper aesthetics and durability for the exteriors.

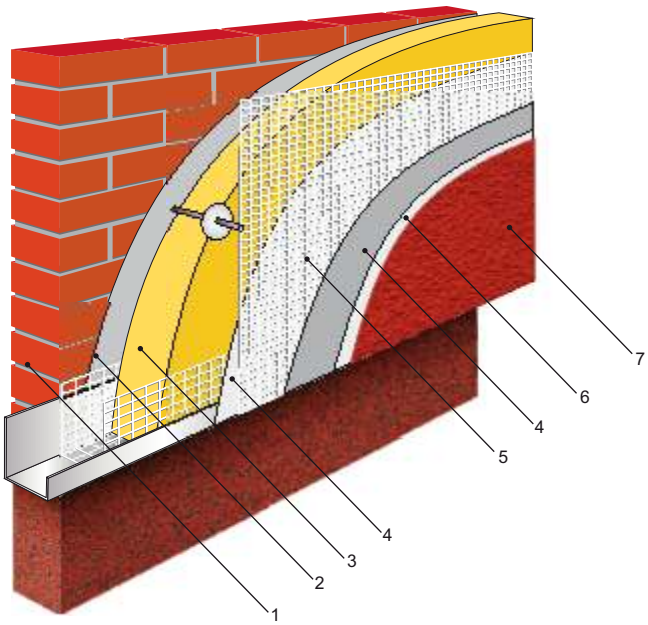


1) uninsulated wall
2) SYNTEKOL Q1/ SYNTEKOL PS adhesive mortar
3) polystyrene foam (insulation plate)
4) SYNTEKOL Q4/ POROLIT Q4/ SYNTEKOL PSW adhesive and patching mortar
5) glass fibre netting
4) SYNTEKOL Q4/ POROLIT Q4/ SYNTEKOL PSW adhesive and patching mortar
6) AKRYL P/ TYNKSILGRUNT/ TYNKSILGRUNT Q primer
7) POROLIT/ AKRYLTYNK/ POROLIT QM / MINERALTYNK Q/ TYNKSIL/ TYNKSIL S/ POROLIT S/ POROLIT QS/ TYNKSIL QS plaster

ITB Technical Approval – LAKMA TERM ST – AT-15-8043/2009
ITB Technical Approval – LAKMA TERM QEPS – ETA-11/0203

SYSTEM LAKMA TERM WM

LAKMA® TERM WM thermal insulation system is a variation on the ETICS technique. It is based on attaching a layered insulation system from the exterior, which consists of mineral wool plates as the thermal insulation, and the cladding is done from thin-coat plasters put on an earlier prepared reinforcing layer. The LAKMA® TERM system is used for already existing buildings but also new ones to provide the optimal heating comfort, and proper aesthetics and durability for the exteriors.

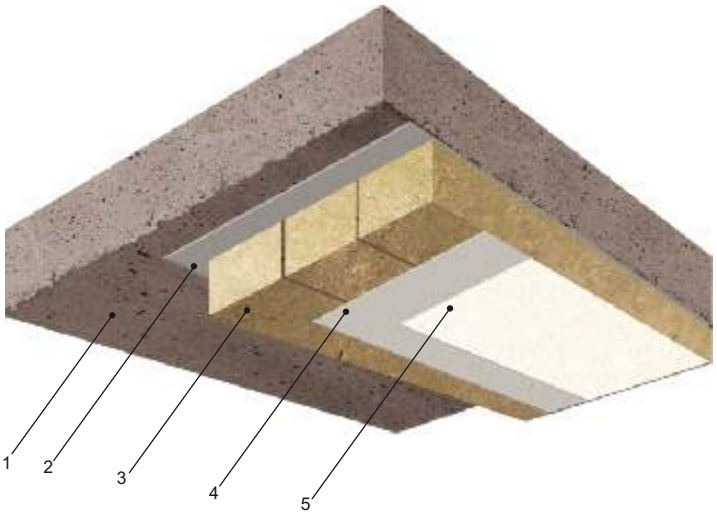


1) uninsulated wall
2) SYNTEKOL PSW/ SYNTEKOL Q4 adhesive mortar
3) mineral wool (insulation plate)
4) SYNTEKOL PSW/ SYNTEKOL Q4 adhesive and patching mortar
5) glass fibre netting
4) SYNTEKOL PSW/ SYNTEKOL Q4 adhesive and patching mortar
6) AKRYL P/ TYNKSILGRUNT/ TYNKSILGRUNT Q primer
7) POROLIT/ TYNKSIL/ POROLIT QS/ MINERALTYNK Q/ POROLIT QM plaster

ITB Technical Approval – LAKMA TERM WMT – AT-15-8044-2009

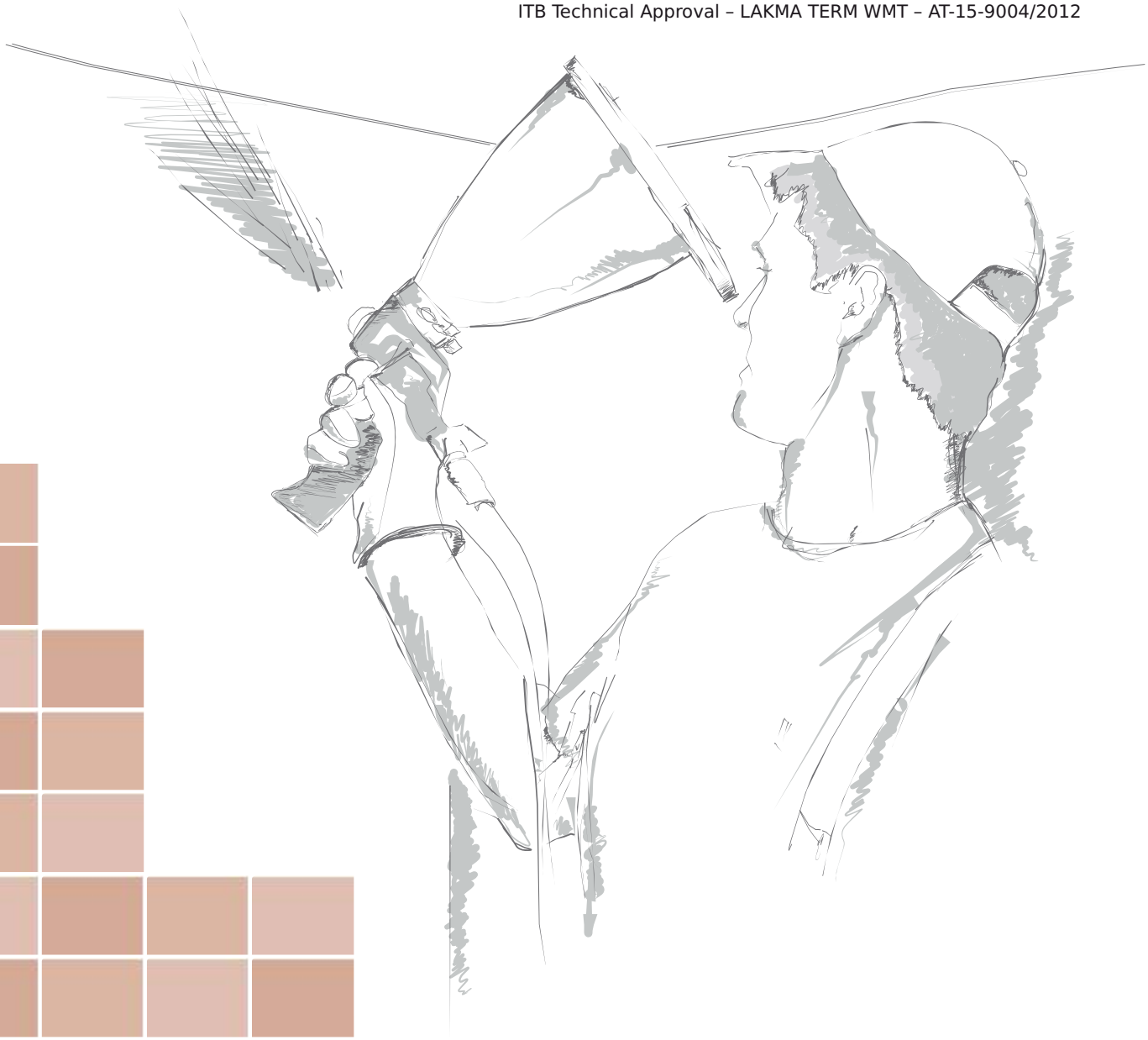
SYSTEM LAKMA TERM WM SUFIT

LAKMA® TERM WM SUFIT thermal insulation system is designed for insulating ceilings in uninsulated buildings – both newly constructed, and existing ones. We advise it especially for insulating ceilings of huge parking lots, multi-level garages (under usable floor for premises), shop halls, over thoroughfares and passages, and other objects located in the neighbourhood of heated rooms. LAKMA® TERM WM SUFIT may be used for both closed and open spaces.



1) Floor slab
2) Syntekol PSW or Syntekol Q4 adhesive mortar
3) Mineral wool with laminar structure
4) Aklryl P or Tynksilgrunt primer
5) Porolit or Porolit QM structural plaster

ITB Technical Approval – LAKMA TERM WMT – AT-15-9004/2012



STANDARD GUN

STANDARD GUN is a device used for applying thin-coat structural plasters, primers, decorative compounds, as well as exterior and interior paints by means of spraying.

USE RANGE
- Small, medium, and large areas exteriors and ceilings
- Plastering and decorative works in interiors and exteriors
- Painting interiors and exteriors

FEATURES
- Perfect for applying structural plasters
- Easy and convenient to use
- Small size
- Wide ranges of applications

PROFI GUN 8 / PROFI GUN 16

PROFI GUN 8 / **PROFI GUN 16** are professional sets of devices for applying insulating adhesives, primers, thin-coat structural plasters, gypsum finishes, and ready-made decorative compounds.

USE RANGE
- Medium and large areas – exteriors and ceilings
- Plastering and decorative works in interiors and exteriors

FEATURES
- Wide ranges of applications
- Mobile frame
- Stepless RPM control
- Application by means of a lance or a gun
- Extremely fast application
- Perfect for ceilings

PHYSICOCHEMICAL PROPERTIES OF PLASTERS AND EXTERIOR PAINTS

Product name	Product type	Application	Primer name for application	Vapour-permeability	Hydro-phobicity	Resistance to biological corrosion	Resistance to dirt	Durability
POROLIT	Plaster acrylic	Spray, long float	Akryl P	●●●●	●●●●	●●●●	●●●●	●●●●
AKRYLTYNK	Plaster acrylic	Long float, spray	Akryl P	●●	●●●●	●●●●	●●●	●●●●
TYNKSIL	Plaster silicate	Llong float	Tynksilgrunt	●●●●●	●●●	●●●●●	●●●	●●●●●
POROLIT S	Plaster silicate and silicone	Spray, long float	Tynksilgrunt	●●●●●	●●●●	●●●●●	●●●●	●●●●●
TYNKSIL S	Plaster silicate and silicone	Long float, spray	Tynksilgrunt	●●●●●	●●●●	●●●●●	●●●●	●●●●●
POROLIT QS	Plaster silicone	Spray, long float	Tynksilgrunt Q	●●●●	●●●●●	●●●●	●●●●●	●●●●●
TYNKSIL QS	Plaster silicone	Long float, spray	Tynksilgrunt Q	●●●●	●●●●●	●●●●	●●●●●	●●●●●
AKRYL FASADA	Paint exterior acrylic	Paint brush, roller, spray	Akryl G	●●	●●●●	●●●●	●●●●	●●●●
SILMAL ST	Paint exterior silicate	Paint brush, roller, spray	Silmalgrunt ST	●●●●●	●●●	●●●●●	●●●	●●●●●
SILMAL SN	Paint exterior silicone	Paint brush, roller, spray	Silmalgrunt SN	●●●●●	●●●●●	●●●●	●●●●●	●●●●●
SILMAL SN REPAIR	Paint exterior silicone renovation	Paint brush, roller, spray	Silmalgrunt SN REPAIR	●●●●●	●●●●●	●●●●	●●●●●	●●●●●

●●●●● – excellent
●●●● – very good
●●● – good
●● – insufficient

Selected LAKMA plasters may be sprayed on, as confirmed by: European Technical Approval (ETA) 11/0203 acc. to ETAG 004

innovation in construction

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