Lower cost, higher efficiency
Optimisation is a word that everyone keeps repeating when talking about planning and selection of products for every building investment, and not just during construction works, but also in operation of the given facility. What does matter is the capacity to reduce costs of the construction itself, to increase efficiency and to accelerate work. Minimisation of heating costs is a default. What the optimisation also applies to is the product features that enable investors and contractors to document that the construction project is managed green style – an approach which has been growing in popularity. What does it entail? Among numerous aspects, maximisation of energy gains and reduction of heat losses by application of environment-friendly technologies or waste minimisation.

In both cases, it is not about the mere promise, but about the product quality evidence certified in a manner that corresponds to currently applicable legal regulations.

Tradition is indeed something to be respected, but in times dominated by optimisation one should focus on solutions that combine sureness of quality, reliability and durability with orientation towards cost and work time reduction as well as performance boosting. Professionals have realised it, and that is why they have chosen RPP-Mortar for construction works, especially when thin joint walls are to be built.

And where wall building is the case, all these requirements are met by a single product: RPP-Mortar. RAWLPLUG has surprised the world again by delivering its thin joint polyurethane mortar of exceptional parameters.

Things to remember about RPP-Mortar

IT’S FAST
reliable joint within 24 hours

IT’S EFFICIENT
one can per 12 m² of wall

IT’S ENERGY-SAVING
thermal conductivity for joints of less than or equal to 0.036 W/mK guarantees thermal insulation and eliminates uncontrolled heat loss

Tradition gives way to innovation
Considering construction materials of low thermal conductivity and high dimensional accuracy, it has become increasingly frequent that professionals decide to apply the thin joint technology using dedicated traditional mortar. However, this tends to be problematic, as it requires a number of conditions to be met. Meanwhile, the RPP-Mortar polyurethane foam mortar from Raw-
lplug offers a set of features that enable convenient and efficient application as a substitute to traditional building mortar that fits this construction technology. What are they?

It’s time to do away with the transport hassle and the need for additional storage area to be arranged at the site. You no longer have to use special equipment to load and unload materials or tools for application, nor do you require dedicated space to store traditional mortar in bags. Now a standard passenger car boot is enough to transport just the amount of foam mortar that you will need for construction works.

Say goodbye to water and electricity mains. It’s time to start using a product that you don’t need to pre-mix with water. Just shake the can, install it in the applicator gun and... you are good to go.

Time-consuming product use is a thing of the past. The mortar does not require you to pre-mix ingredients or wait for complete setting, because foam mortar is a ready-to-use product, as it ensures immediate bonding right after application. There is more to that, since faster product application and the lack of need for tool cleaning after work is finished translate into the overall time saving effect. All you need for preparation and application with RPP-Mortar is the gun and some cleaning cloth. Compared to the traditional wall building method, considering the preparation time and the need for additional materials and tools, it is estimated that using RPP-Mortar allows you to save even up to 50% of time.

Stop bothering yourself with the continuous layer thickness control. Not only does RPP-Mortar ensure easier and faster mortar application, but it also stands for a guarantee of smooth and regular joints. They will also be thinner compared to those developed by traditional thin layer mortar. And there is no need to remove waste, since using RPP-Mortar involves virtually none.

Put an end to unnecessary expense. Instead of traditional mortar in bags and the whole selection of specialised equipment required for application, you only need to buy the foam mortar.

**How many advantages does RPP-Mortar offer? It’s a matter of simple calculation.**

Cost, logistics and work time optimisation is but a small fraction of the real competitive advantage offered by the polyurethane foam mortar from Rawlplug.

Firstly, RPP-Mortar stands for reliability of bonding that proceeds much quicker than with traditional thin layer mortar. Secondly, a single can replaces an entire bag of traditional mortar. Thirdly, you can lay bricks using Rawlplug’s mortar at temperatures as low as -5°C, which significantly extends the building season up till the late autumn, even early winter, and effectively shortens the return on investment time. Fourthly, freeze resistance is one thing, but the product is also waterproof, consequently preventing mould and fungi from building up in joints. Fifthly, RPP-Mortar offers unparalleled thermal insulation properties, eliminating thermal bridges that are responsible for uncontrolled heat loss of even up to 30% and which must necessarily be avoided in energy-efficient buildings. Sixthly, walls erected with polyurethane mortar develop high mechanical strength very quickly, and furthermore, after only several hours from construction, they ensure the strength required

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**How can you benefit with RPP-Mortar?**

- **ELIMINATE** thermal bridges
- **KEEP** your work place clean
- install **QUICKLY** and easily
- ENGAGE small crew for construction work
- **EXTEND** the building season
- use a product of **HIGH** mechanical strength
- **SAVE** time and money
- **USE** a universal product
- be **ECO-friendly**
to proceed with further work. While traditional mortars reach their nominal load capacity after 3 days, Rawlplug’s polyurethane mortar ensures full setting within 24 hours from application. Seventhly, the product goes along very well with various materials, enabling different structures to be joined. Eighthly, only two well-trained professionals using RPP-Mortar suffice to build a wall in time of a half of what is required with traditional mortar.

Contractor’s benefits are obviously the major aspects of the product, but when developing RPP-Mortar, we did not neglect its contribution to environmental protection. This effect is triggered by reduced potential waste quantity, lower logistics costs, fuel demand or exhaust emission, no electricity demand, and improved thermal properties of the finished building. This is hard evidence highlighting the direct influence of innovativeness of Rawlplug’s product on natural environment. It is also not the first time that Rawlplug has proved its attention to sustainable development.

And far more can be said, since even though it is not mandatory for polyurethane foam, the reliability of all product properties declared in datasheets is certified by the Technical Approval issued by the Building Research Institute in Warsaw, where construction of thin layer walls using typical construction materials dedicated to this technology has been defined as the product’s key application.

One product – many applications
Since the polyurethane foam mortar from Rawlplug is suitable for many different materials, it fits an extensive range of applications. It is intended for construction of both outer and inner, both load-bearing and partition walls. Structures made of aerated concrete of the TLMB dimensional tolerance class, polished ceramic hollow blocks or calcium silicate blocks of adequate dimensional tolerance matching this building solution are all potential fields of application for Rawlplug’s foam. It works perfectly when used for erection of single family house walls as well as walls in multi-family buildings.

The one, but among thirty thousand
The RPP-Mortar polyurethane foam mortar for thin layer construction applications is one of Rawlplug’s 30,000 products. What can be ascertained about each of them is that it is the most highly advanced solution ensuring impressive use properties and performance. And there is more to that, since products form but a part of Rawlplug’s complementary portfolio. The brand provides its clients with a comprehensive selection of highly specialised services making the best of state-of-the-art solutions to help you work more easily regardless of what you do, from design to investment contracting, offering a full range of innovative training courses that not only expand your know-how, but also provide necessary technical assistance. We recommend that you invest some time to read more on rawlplug.com.