

# UHPC FACADE SOLUTION

G.tecz provides top-notch UHPC (Ultra-High Performance Concrete) solutions for facades for buildings. UHPC facades are known for their excellent durability, strength, and resistance to weather and environmental conditions.

We specialize in the optimization and development of UHPC facade materials that are tailored to meet the specific needs of our clients, productions, and local raw materials. Our team of experts works with you to understand your requirements and design a holistic facade solution that meets your expectations. We use the latest technology considering local materials to ensure that our UHPC facades are of the highest quality for an affordable price.

In addition to optimization and development, we also offer consultancy services for UHPC facades e.g. for anchor systems, structural design, molds, post-processing, quality management and more. Our team of experienced consultants provides expert advice on UHPC material, and facade design even in collaboration with architects, production with your team, and installation topics on site. We work closely with your team to ensure that the entire process runs smoothly and efficiently.

At G.tecz, we are committed to providing our clients with the best UHPC facade solutions. Contact us to learn more about our services and how we can help you achieve your project goals.

## Solutions we offer for UHPC

- Optimization and development of UHPC for facade applications.
- Consideration of local raw materials as well as production facilities.
- Analysis of raw-materials and optional research on alternative raw-materials.
- Production and testing strategy for colored facade panels with pigments.
- Specimen production and strength tests in the G.tecz Laboratory.
- Consultancy on fibers and/or mesh considering structural calculations.
- Recommendations on official test procedures and national codes.
- Quality control and management.
- Consultancy and teaching local team members about UHPC, production, and quality management.

## Solutions we offer for facade production

- Optimization or development of the product strategy and process.
- Optimization or development of the production floor plan.
- Consultancy on local required infrastructure for production, and post-production.
- Recommendations on mold design, production, and mold system.
- Recommendations on structural design, anchor systems for architects and engineers
- Consultancy on packing and transportation.
- Preparing and participating in lunch and lectures for architects, and clients.
- Preparing and consulting for marketing and sales of facades.

## How

The process of optimization or development of UHPC is pre-defined. We will offer you a guideline for the development including the transfer into your company, one we agreed on the development. We do expect a timeline of about 3 months or less, starting from the point when we received samples of the raw-materials that are required for the development. You will receive instructions for the materials we would like to test.

The further consultancies can be started parallel, based on one of the following possible arrangements:

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### UHPC Development Fee

The development fee is a lump sum for the UHPC optimization or development package. It includes the complete process from raw-material selection, material analysis, specimen production, internal laboratory tests, and transfer services. The fee is for the pure UHPC material topic and is split up in three milestones respective payments.

The fee for the optimization or development will be between 25.000,00 Euro and 50.000,00 Euro, depending on the defined technical topics. \*)

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### Monthly Service Fee

Our teams will define a consultancy strategy at the development with the definition of the included consultancies or services. G.tecz will estimate work volume and timeline. Based on that information, we will offer a monthly fee, at an hourly rate. Hours and services will be communicated and a transparent plus and minus hour account installed.

Depending on the work hours per month and timeline, the range of the fee can be between 3.000,00 Euro and 15.000,00 Euro. You decide.

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### Raw-Material Solution

The German company CONCRETE ROBOTICS offers special ADD-ON powders for HPC and UHPC productions. The powder reduces cement and silica fume, increases workability, and reduces super-plasticizer. With improved packing density and workability, the UHPC will be even more sustainable.

\*) The usage of the ADD-ON is optional, but we can offer you a partial refund of the development fee or a reduction in ADD-ON costs to compensate for the initial investment when you permanently order the ADD-ON powder.

## References

G.tecz has been actively researching and developing UHPC for over a decade, catering to a diverse range of clients and applications. Some of the notable UHPC facade producers that have benefitted from our expertise include TAKTL Ilc, Rieder, Hering Bau, Betontec, Cemento, and SCG.

Over the years, our extensive experience has allowed us to expand our client base, which now includes renowned names such as Volkswagen, Schöck, ACO, Envel, Rosetta, and Badachu, among others. In addition to working with clients, G.tecz also provides concrete consultancy services to various construction companies worldwide. We have collaborated with major projects like the NEOM project, where we offered our expert guidance to ensure the success of the project.

Through our years of dedication and hard work, G.tecz has established itself as a leading name in the UHPC industry, and we continue to strive for excellence in all our endeavors.

## CONTACT

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Picture: (C) TAKTL Ilc, US