

The Podlasie Opera and Philharmonic – The European Arts Centre in Białystok

BIAŁYSTOK - POLAND

KEY FACTS

- A very dynamically growing institution of national culture
- 300 m² of wooden flooring installed with MAPEI products



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WARSAW - POLAND

Let's present the project...

The Podlasie Opera and Philharmonic – The European Arts Centre in Białystok gained this name version in 2005, as a consequence of establishing new institution of national culture, and because of an official decision release to build a brand new opera hall. The Opera's beginnings are dated to the year 1954 when The Symphonic Orchestra was constituted. On account of the institution's dynamic development and increasing prestige, 20 years later, it received the status of the Philharmonic Orchestra.

The competition for the new design project of The Podlasie Opera and Philharmonic, located so far in Podleśna street, was won by professor Marek Budzyński. The new Opera Hall in Kalinowski street with a roof-placed park and a facade destined with the passing of time to cover with overgrown flora, becomes a picturesque part of St. Maddalena's hillside. The dominant of green and living floral motifs are the featuring casts of Marek Budzyński's projects, i.e. The Warsaw University Library or the Supreme Court in the capital city of Warsaw.

The construction of The Podlasie Opera and Philharmonic commenced in 2006. The role of the general contractor was taken by the WARBUD S.A company and a consortium led by LTT sp. z o.o. company has undertaken the task to build the stage and the auditorium equipped with the most modern electro-acoustic installation. The interior design realization involved the work of the following artists: Dominik Wadowski – the author of 10 concrete sculptures referring to opera characters; Teresa Murak – the creator of the sculpture of composer's head located on the building's roof; Rafal Olbiński – the author of a painting placed on a 30 m high safety curtain; Tomasz Urbanowicz – bound to artistic glass project accomplishment.

The new 16 000 m² big Opera edifice is composed of the main stage which can hold 1028 seats, a chamber stage for up to 130 persons, 3 choir, orchestra and ballet try-out rooms and an amphitheater adjoining the building which can contain up to 650 spectators. The concerts will be adapted for visually – and hearing impaired persons, thanks to the special audio description system. The foyer, in turn, will serve as an art gallery. The structure is ought to originally become a platform of common actions for artists both from Poland and Eastern Europe.

The new Podlasie Opera and Philharmonic hall opening anticipated on September 28th, 2012 will be honored with Stanislaw Moniuszko's "Haunted Manor".

...and MAPEI contribution

The finishing works related to wooden and resilient flooring in the new Opera Hall were executed with MAPEI solutions. In the ballet, choir and orchestra try-out rooms, on the total area of 300 m² it was necessary to create a waterproofing barrier due to cut off the residual humidity amounting to 3%. For this purpose, on the cementitious screed ECO PRIM PU 1K TURBO was used. The primer was spread in two-layer crosswise moves, round 60 minutes from each coat. The ballet try-out room required leveling, therefore the surface protected with ECO PRIM PU 1K TURBO was sprinkled over with QUARZ 1,2 mm in order to improve adherence of the leveling compound. Such prepared surface could have ULTRAPLAN ECO mortar applied. This self-levelling, fast-setting and fast-drying cement-based compound with low emission of volatile organic compounds (VOC) can be used for leveling new and existing substrates inside buildings, even in zones exposed to heavy loads and intense traffic. After drying, with the use of ULTRABOND P902 2K, a two-component, polyurethane, shear-resistant adhesive for parquet, it was feasible to install polyurethane-cork tiles as a base, and then – oak floorboards. In the choir and orchestra try-out rooms



the same polyurethane-cork sheets were installed directly on the cementitious screed (after having created the humidity barrier).

In the banquet hall, in turn, before the parquet and carpet flooring installation, a base substrate was created from oriented strand boards (OSB), screwed to previously supplied supporting joists. These OSB panels were sanded off in order to enhance the bonding performance of the adhesive bound to install the flooring. A special floor design composed of parquet and carpet flooring combination was elaborated to fit well the hall. The parquet strips were installed with ULTRABOND P902 2K and subsequently, they were sanded and varnished. Finally, carpet flooring elements were pasted in between the parquet strips. For this action with support came ULTRABOND ECO 185, a high initial tack adhesive in water dispersion and with low volatile organic compounds.

The last zone in which MAPEI solution found its use was the orchestra's area. In this spot, the joists were first fastened to a steel construction and afterwards a 22 mm thick oriented strand board was screwed to them. Similarly to the banquet hall, the surface of the oriented strand boards was sanded. The last stage consisted in bonding pine strips with the use of ULTRABOND P902 2K, according to a design pattern.

MAPEI PRODUCTS: ECO PRIM PU 1K TURBO, ULTRABOND ECO 185, ULTRABOND P902 2K, ULTRAPLAN ECO.



TECHNICAL DATA

- **Name of building intervention:** The Podlasie Opera and Philharmonic – the European Arts Centre / Białystok / Poland
- **Type:** PUBLIC (OPERA & PHILHARMONIC)
- **Designer:** Marek Budzyński
- **Period of construction:** 2006 - 2012
- **Period of MAPEI intervention:** 2011 - 2012
- **Intervention by MAPEI:** installation of wooden and resilient flooring
- **Customer:** Governor of Podlasie Voivodeship
- **General contractor:** WARBUD S.A. & LTT sp. z o.o.
- **Site manager:** Jarosław Zbroński
- **Laying company:** Quercus Adamus Kopytko sp.j.
- **Mapei Distributor:** Quercus
- **MAPEI Coordinators:** Tadeusz Leksander, Łukasz Matuszewski.

MAPEI PRODUCTS	MATERIAL INSTALLED	SUBSTRATE	QUANTITY OF PRODUCT	SURFACE	INSIDE/ OUTSIDE	NEW/ RENOVATION	PRODUCT LINE
	DO NOT COMPLETE FOR BUILDING PRODUCTS						
ECO PRIM PU 1K TURBO		CEMENTITIOUS SCREED	180 kg	300 m ²	INSIDE	NEW	PRODUCTS FOR WOODEN FLOORS
ULTRABOND ECO 185		OSB	7 kg	25 m ²	INSIDE	NEW	PRODUCTS FOR RESILIENT & TEXTILE MATERIALS
ULTRABOND P 902 2K		OSB / CEMENTITIOUS SCREED	620 kg	300 m ²	INSIDE	NEW	PRODUCTS FOR WOODEN FLOORS
ULTRAPLAN ECO		CEMENTITIOUS SCREED	1058 kg	160 m ²	INSIDE	NEW	PRODUCTS FOR WOODEN FLOORS

