



SIKA AT WORK

Private Villa Basement Waterproofing (KHERSON, UKRAINE)

Sika Technologies:

SikaProof fully bonded waterproofing system

SikaSwell and Sika Waterbar joint solutions

PRIVATE VILLA BASEMENT WATERPROOFING

PROJECT DESCRIPTION:

This spacious and comfortable villa includes residential building, garage and SPA constructed on the riverbank – all connected by underground passages. Exclusive sights of the Dnipro river naturally set additional requirements to the waterproofing of underground facilities.

REQUIREMENTS FOR PROJECT:

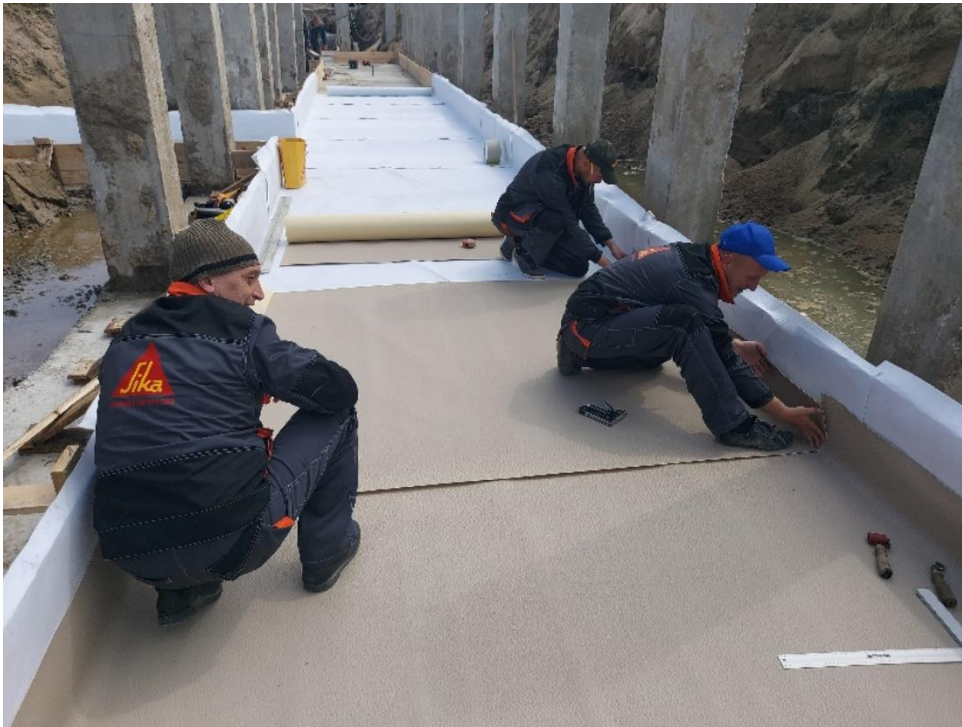
Construction site is situated almost on the level of the river, therefore underground waters are found on 1m depth. Water pumping units are used 24/7.

The owner required an efficient basement waterproofing system with high durability and redundancy. Special care was given to details of pipe penetrations, pile heads, lift pits, etc.



SOLUTIONS FROM SIKA:

The **SikaProof A+ 08** system was approved for foundation slab waterproofing to fulfill client's requirements. Pile heads were secured by **Sikadur-42** and applying **SikaSwell S-2** on rebars.

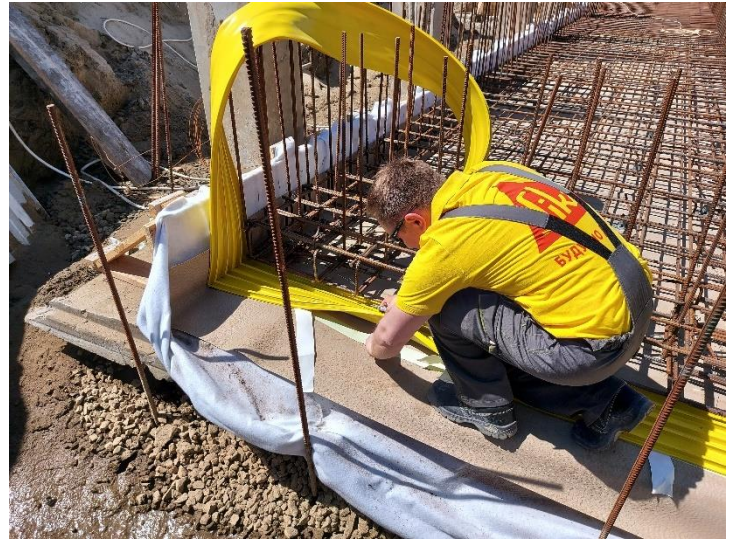




It was decided to use post applied solution for vertical walls – **SikaProof P1200 + SikaProof Adhesive-01**, as the most efficient fully bonded system.



Slab to wall transition joint was additionally sealed by **SikaSwell A** profile and **SikaSwell S-2**. **Sikadur Combiflex SG** was applied on pipe penetrations. **Sika Waterbars** were used to waterproof movement joints and to connect existing facilities, previously waterproofed with **Sikaplan WP** membrane.



PROJECT PARTICIPANTS

Designer: DEKART STUDIO

General contractor: PMK-19

Waterproofing contractor: Build Group

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