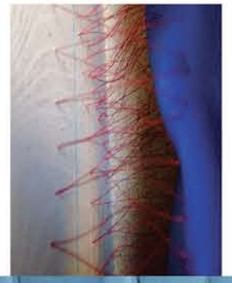
ConcreTex

keeps you dry

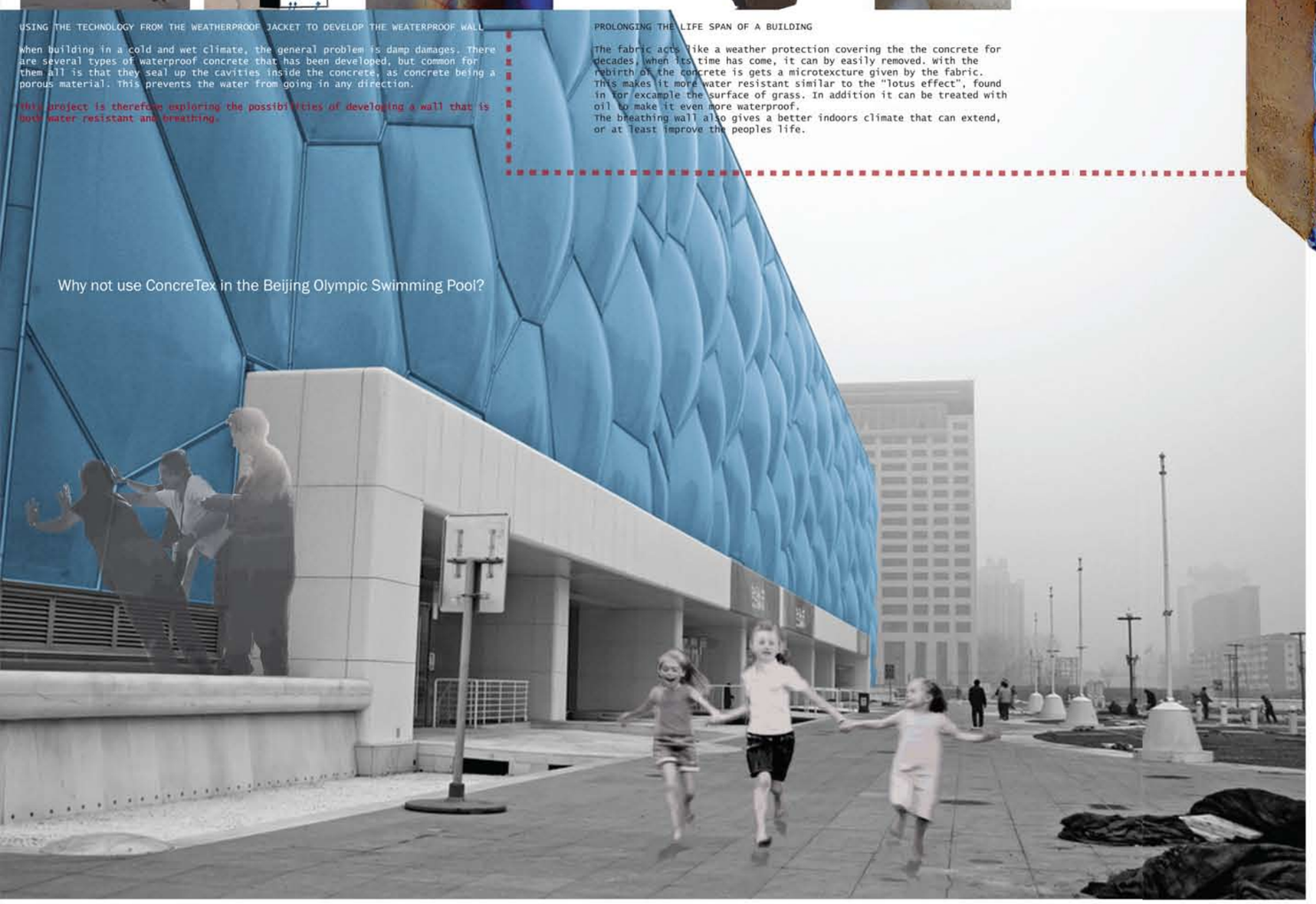


USING THE TECHNOLOGY FROM THE WEATHERPROOF JACKET TO DEVELOP THE WEATERPROOF WALL

When building in a cold and wet climate, the general problem is damp damages. There are several types of waterproof concrete that has been developed, but common for them all is that they seal up the cavities inside the concrete, as concrete being a porous material. This prevents the water from going in any direction.

This project is therefore exploring the possibilities of developing a wall that is both water resistant and breathing.

Why not use ConcreTex in the Beijing Olympic Swimming Pool?



ConcreTex

extending life

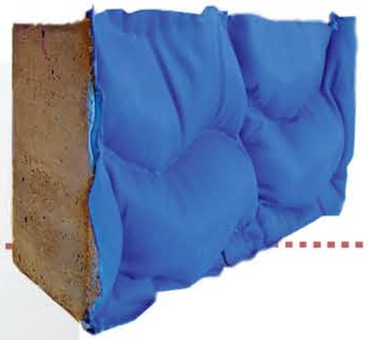
PROLONGING THE LIFE SPAN OF A BUILDING

The fabric acts like a weather protection covering the the concrete for decades, when its time has come, it can by easily removed. With the rebirth of the concrete is gets a microtexcture given by the fabric. This makes it more water resistant similar to the "lotus effect", found in for excample the surface of grass. In addition it can be treated with oil to make it even more waterproof.
The breathing wall also gives a better indoors climate that can extend, or at least improve the peoples life.

TV531

ConcreTex

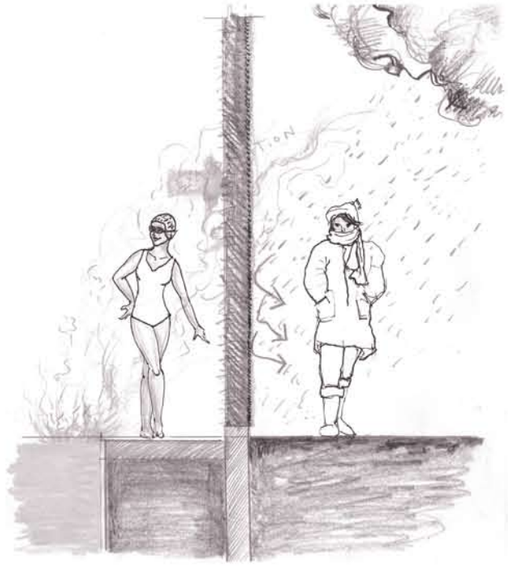
easy-build

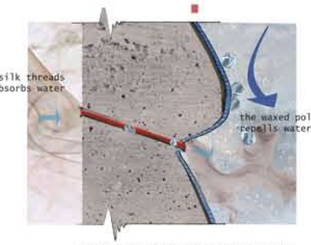


BRINGING THE TECHNIQUE FROM NEEDLEWORK TO THE WORLD OF CONSTRUCTION

Our building culture has a habit of consuming. When casting concrete the formwork is normally being thrown away after use. A more substainable way of building is to let a part of the formwork be the end result. The process of making becomes a part of how the finished material will function. The threads that connect the sides of the formwork, can contain fiber arming which is a current product. To use polypropen fibres will also absorb evaporation. This way of shaping the concrete exploit the plasticity of the concrete, its ability to first be fluid, then harden.

THE NEW CONCRETE FORMWORK



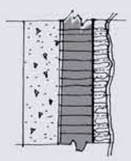


DIRECT THE WATER WHERE YOU WANT IT

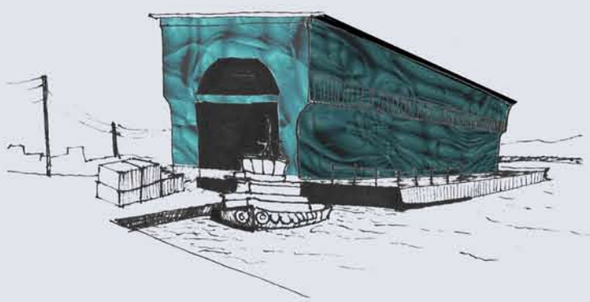
The moist pressure level is higher on the inside than outside, making the moist travel through the wall. The moist goes where there is minimal resistance, it travels through the threads instead of the concrete. The shape of the surface prevents the exits from being easy entrances for the water from outside.

The threads is impregnated to make sure that no water goes in or out from the concrete, but the water is still travelling within the threads.

THE NEWER SKIN - for refurbishment of old buildings



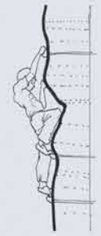
thermal insulation is added outside the excisting skin, extending the life span of a building



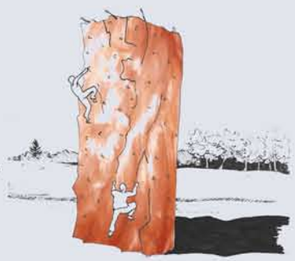
THE FLASHY SKIN - for making a statement

the building is made for the owner

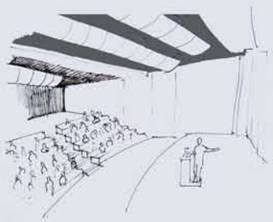
THE PROTECTIVE SKIN - for the active user



a smoother surface for the sensitive human skin



THE OPENING SKIN - for crowdy spaces



fresh air for fresh thinking