Known as the world’s toughest wallpaper, X-Flex is a new type of wallpaper that is easily stronger then most building walls upon which it resides. Developed by Berry Plastics and the US Army Corps of Engineers, X-Flex can be used in any area prone to blast damage including national airports and chemical plants. In fact, the US military is seriously looking at redecorating military bases with this wallpaper to protect military personnel stationed at army bases overseas.

The strength of X-Flex comes from it’s building material which is Kevlar-tye sheets that are sandwiched between a layer of elastic polymer wrap. Application of the protective sheets couldn’t be easier and consists of removing the sticky backs and rolling it onto the wall while fastening the edges. An entire room can be done in under an hour.

X-Flex wallpaper is designed to hold together even under extreme stresses, such as a bomb detonation.X-Flex bonds so tightly, it helps walls keep their shape after blast waves. Two layers are strong enough to stop a blunt object, like a flying 2×4, from knocking down drywall. During our tests, just a single layer kept a wrecking ball from smashing through a brick wall. The wallpaper’s strength and ductility is derived from a layer of Kevlar-like material sandwiched by sheets of elastic polymer wrap.

This lifesaving adhesive is designed for use anyplace that’s prone to blasts and other lethal forces, like in war or natural-disaster zones, chemical plants or airports. To keep a shelter’s walls from collapsing in an explosion and to contain all the flying debris, you simply peel off the wallpaper’s sticky backing, apply the rollable sheets to the inside of brick or cinder-block walls, and reinforce it with fasteners at the edges. Covering an entire room can take less than an hour.

The X-Flex wallpaper is really a layer of Kevlar-type material, in between sheets of "elastic polymer wrap," which provides both flex and strength so that the projectile doesn't knock the wall down. It seems really effective—check out Pop Sci's video here for evidence—and the US Army is considering using it for bases in Iraq and Afghanistan. It's also incredibly easy to attach, being basically a rollable sheet, although I'm not sure if it can be unattached and reused. Still,

its effectiveness is really impressive.