

Roller Blinds for Reduction of Indoor Toxins

Whether in the nursery or the open-plan office - most indoor space occupied by people poses a constant threat of the so-called Sick House Syndrome. Hazardous emissions are continuously released into the air from building materials, furniture, floor coverings, wall panels and consumer goods.

Numerous studies and expert opinions have revealed, that symptoms such as headaches, fatigue, nausea, skin rashes, eye irritation and respiratory problems are linked to an increased contamination of air with organic-chemical compounds, the so-called VOC's (Volatile Organic Compounds) in confined spaces.

The Sick House Syndrome is further aggravated by the practice to insulate domestic and office buildings in order to save heat energy in winter and cooling energy during summer. The resultant reduction of air flow causes a noticeable concentration of toxins in the rooms, which quickly reach critical levels. Long-term exposure is detrimental to health.

The health hazard is considerable, especially for adults with a disposition for allergies as well as for children. An example for this is formaldehyde. The World Health Organisation (WHO) has recommended that the maximum concentration of formaldehyde indoors should not exceed 0,08 ppm (parts per millimetre). Currently the permissible

maximum concentration in Germany is 0,10 ppm. A concentration of 0,05 ppm has been proven to cause mild eye irritation. The irritation to mucuous membranes and eyes at a level of 4,0 ppm are severe to the extent that eyes begin to water. Acute symptoms of poisoning become evident at a concentration of 50,0 ppm within minutes. (This quantity is emitted daily by a plywood cupboard weighing 25kg).

Bamberger Kaliko GmbH, Bamberg offers a highly effective, ecologically sound and economically viable protection against Sick House Syndrome: BakaSave[®], the active agent added to fabrics for sun and light protection accessories such as horizontal and vertical blinds.

BakaSave[®] is a catalyst which absorbs harmful gases such as formaldehyde as well as nicotine and other unpleasant odours, binds these on the surface of the blind and transforms them into harmless substances such as water (H₂O) and carbon dioxide (CO₂).

The effectiveness of BakaSave[®] has been tested in the laboratories of the Textile

Research Institute Thuringia-Vogelland e.V in Greiz, and Landesgewerbeanstalt Bayern in Nuremberg. It was established, that BakaSave[®] breaks up the following compounds:

- Formaldehyde (environmental toxin)
- Acetaldehyde (environmental toxin)
- Acetic acid (organic acid with pungent smell)
- Ammonia (pungent gas)
- Trimethylamin (gas with a fishy smell)
- Hydrogen sulphide (foul smelling, very toxic gas)
- Methylthiol (a distinctly rotten smelling gas)

BakaSave[®] also absorbs cigarette smoke and other unpleasant odours. In contrast to the so-called odour absorbents (cyclodextrines) which merely bind smells short-term, BakaSave[®] never reaches the saturation point. Consequently no specialised chemical waste is generated, which in turn would have to be disposed of in a specialised manner.

The deodorization (absorption and dissolution) of gases and odours is brought about by chemical reactions with organic nitrogenous compounds and metal salts. BakaSave[®] is the catalyst for these reactions while retaining its own chemical properties. In other words, the active agent maintains its properties and remains highly effective permanently and lasts a lifetime. ►

► Roller Blinds...

BakaSave[®] is environmentally friendly and can be added to all fabrics for indoor sun and light protection, be it daylight, blackout or B1 products. BakaSave[®] is not only advantageous for your home, but maintains healthier and odour-free air in public buildings, hospitals, classrooms, offices, hotel rooms and restaurants. In any room or building BakaSave[®] is the economical and permanent answer for protection against Sick House Syndrome. (7838)

roof child's play. The locking device of the flat-topped pole prevents swivelling and the double clamp enables infinitely variable rotation on its own axis by 360° already a feature of the original Pendalex 40 years ago.

The Pendalex free-arm sunshade is now even more attractive and more convenient, offering you all the benefits of a sunshade without a centre pole. Why not ask for a demonstration of the