

Chemical resistance of ColoRex[®] EC, SD

In the following document, if not otherwise specified, ColoRex was exposed to listed chemicals for 24 hours according to EN 423 (DIN 51958).

ColoRex is resistant against non-oxidising **organic and mineral acids** in any concentration (except sulphuric acid). The following were specifically tested:

- **Hydrochloric acid**
- **Hydrofluoric acid**
- **Nitric acid**
- **Phosphoric acid**
- **Acetic acid**
- **Formic acid**
- **Citric acid**
- **Lactic acid**

24 hours exposure to **sulphuric acid** will cause a slightly brown stain. This kind of staining can be easily removed from the surface of ColoRex by abrasive cleaning, such as light sanding or grinding. The same applies for **potassium permanganate, silver nitrate** and other **heavily oxidising solutions**.

ColoRex is also resistant against strong alkalis in any concentration. Resistance against **sodium hydroxide and ammonia** were specifically tested.

ColoRex is equally resistant against a number of **solvents**, in particular:

- **Hydrocarbons** (incl. petrol and diesel oil)
- **Alcohols**
- **Ether**
- **Ester (Acetate)**
- **Glycol (Glycerol)**
- **Formaldehyde**

ColoRex is not resistant against PVC solvents like ketones, chlorinated solvents and phthalates. Exposure will cause surface dulling up to surface attack. These solvents usually evaporate rather quickly, have a strong odour and a number of them are very toxic. Therefore, it is very unlikely that they may stay in contact with the floor for a long time. For example:

- **Chloroform**
- **Dichloromethane**
- **Acetone**
- **Methyl Ethyl Ketone (MEK)**
- **Stable against Isobutylmethylketone**

Particular attention should be paid to **colouring chemicals**. This can be highlighted as one of the best arguments in favour of ColoRex rather than a disadvantage. Colour stains or surface dulling caused by chemicals as well as spilled glue, oxidized or burned ColoRex surfaces can be completely restored by abrasive techniques without leaving any trace. Moreover, restored ColoRex surfaces usually have an even better surface quality and optical appearance than before. This could be a great advantage for laboratories and regular abrasive cleaning should be taken up into the maintenance plan.

It must be specified that to our today's knowledge, no other comparable product can show the same chemical resistance features as ColoRex.