

Preliminary remarks

When handling properly, Silikal reactive resins are safe, unproblematic and not harmful to health. Nevertheless, like any other chemicals, they must be treated according to strict rules. The manufacturer is also obliged by law to print on the corresponding information and to give it in data sheets as well.

Additional regulations abroad (outside Germany or EU) can vary or could be differently issued. Please check carefully individual regulations of your authorities in your country as they are subject of conditions for your case locally.

When applying Silikal reactive resins, perfectly hygienic conditions at the place of application are absolutely essential if they are to be handled safely and without danger. The place of application and its surroundings must be kept clean and unobstructed. Foodstuffs and tobacco products as well as items of personal clothing do not belong at the workplace! It should be a matter of course that you wear work safety clothing, safety goggles and protective gloves. Resin-contaminated work clothing must be changed immediately. Hands must be cleaned thoroughly during work breaks and particularly before eating. First Aid materials such as bandages, eyewash bottles etc. must be within easy reach at the workplace. You must ensure sufficient ventilation (cross-ventilation) with fresh air while the work is going on. You must follow the danger warnings and safety advice shown on the relevant containers. Further information can be found on the EU safety data sheets, which are enclosed in the relevant applicable version with every delivery of materials.

Fire hazards



Silikal reactive resins are a fire hazard.
At the place of work you must make absolutely sure that

- no one smokes while working;
- there is no naked flame nearby, e. g. ignition flames from gas heaters, and no electrical appliances such as radios, mobile phones etc.;
- electrostatic charges are avoided;
- no sparks can be given off, e. g. through grinding or welding.

The place of work must be identified and protected by putting up the corresponding **prohibiting signs**.

Emissions

When Silikal reactive resins are laid, a certain quantity of methylmethacrylate evaporates. This can be perceived as a bad odour.

It is recommended that you always use respiratory equipment when mixing, transporting and coating (filter class A1 or A2). The filter devices used should preferably be fitted with a blower and hood or helmet (Airstream helmets). These are not subject to the restrictions on wearing time under No. 6.3 of ZH1/701 "Rules for the use of respiratory equipment" or to precautionary occupational health examinations under German trade association principle G26, or to the keeping of a precautionary index according to VBG 100.

Since § 19 of GefStoffV [German Hazardous Substances Order] requires that the wearing of respiratory equipment is not a permanent measure, the corresponding exceptional approval of the competent trade supervisory authorities must be obtained.

Technical safety data for methylmethacrylate (MMA)

Flash point:	+10 °C
Lower explosive limit:	2.1 % v/v
Upper explosive limit:	12.5 % v/v
Ignition temperature:	+430 °C
Ignition group:	G 2 and T 2

Contact with the eyes

We recommend that you always wear safety goggles. Should resin splashes nevertheless get into your eyes, you must rinse them thoroughly with a lot of clear tap water. You should also consult an eye specialist.

Contact with the skin

You should wear protective gloves as a matter of course. A suitable protective cream must be rubbed in to exposed parts of the skin. Splashes landing on the skin must be soaked up with absorbent paper. The skin is then washed with a lot of water and mild soap, dried and rubbed with skin creme.

First Aid

See EU safety data sheets.

Notice sheets of the German Chemical Trade Association:

M 001: "Organic peroxides"

M 004: "Caustic substances – corrosive substances"

M 017: "Handling solvents"

M 042: "Prevention of industrial skin diseases"

T 005: "Handling empty containers"

These can be obtained from: Jedermann-Verlag, Postfach 10 31, 69021 Heidelberg/Germany

You must also comply with:

VBG 23 "Applying coating substances" (this MUST be available at the place of work).

LASI / ALMA recommendation LV 19:

"Coating industrial floors and other large areas in interiors with methylmethacrylate (MMA resins)".

It is recommended to refer to the safety data sheets when using quartz flour containing fillers.