

# EMC plus<sup>2</sup>-System

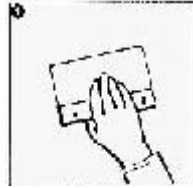
Item No. 97441

## Instructions for Fitting and Installation

Strict implementation guarantees the optimal function of the EMC shielding therefore the following instructions are to be followed precisely.

### 1. Substrate

The base must be clean, firm, smooth, dry and absorbent. Use a primer which is based on water for surfaces which are not firm or too absorbent.



### 2. Adhesive

Use a dispersion glue (e. g. Ovalit T).

### 3. Cutting the EMC Shielding Fleece

Cut the EMC on a large clean table to the size of the floor length, ceiling length or wall height. The EMC material should not be bent or creased during the cutting.

### 4. Earthing Arrangements

With regard to earthing the material this should only be carried out by an authorised specialist.

During the installation of the shielding material the following advice regarding the electrical connection should be considered:

- The objective is for a good (low resistance) earthing connection.
- Earthing connections must always use a green/yellow cable.
- Earthing connections must always be carried out with cable that are as short as possible.

- An earthing on the net installation of the room that is to be shielded is only permissible in the case of separate transfer of NEUTRAL-CONDUCTOR, and PE-CONDUCTOR („modern connection to neutral”).

- It is not advisable for an earthing on the net installation of the room that is to be shielded by the transfer of a PEN-CONDUCTER („classical connection to neutral”). In this case a separate earthing is to be carried out.

- To receive the complete shielding effect it is recommended to use a line filter in the net supply of the room, and if necessary to transfer with shielded wires. The line filter is a component of the installation set item denoted by no. 97407: interference suppressor in rectangular metal case 16A.

- Earthing installations are the responsibility of the contractor, we do not accept any liability for damages which result in installations and earthing carried out inappropriately.

- If there is an electric installation already existing (only permissible in the case of separate transfer of NEUTRAL-CONDUCTOR and PE CONDUCTOR) it is necessary to remove the insert of the socket from the socket so that first edge of the web conducts concentrically over the socket. Only when the second EMC-web is tried to align to the first can the EMC wallcovering be cut into the socket.

- Now you can assemble the insert of the socket after a competent earthing of the metal frame. Earthing should be carried out by an authorised specialist.

Valid national standards and rules must be observed. Every wall to be covered should as far as possible be earthed by itself.

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Large rooms/walls should employ an expert earthing of the covering at intervals of 8-10 running metres. Where no earthing over the frame of the socket is possible, it can lead to an earthing from the socket to the next edge of the EMC covering with a delivered copper-tape no. 97406.

### 5. Applying the Shielding Fleece to the Substrate

The piece to be papered should be measured on the wall and a vertical line drawn with the help of a spirit-level and a pencil.

Apply evenly the adhesive (not too thick) onto the substrate with a paste brush or a lambskin roller.



### 6. Treatment of the Edges and Joint

Place the copper tape item no. 97468 under each seam (horizontal and vertical) with the copper side up. Put this 6 cm wide tape in the middle under each seam.

If use the shielding-material with alkali-block (item no. 97467 or 997466) remove the alkali-block for each horizontal seam. Removing the alkali-block is carried out by sticking a self-adhesive tape (standard product) on the alkali-block which should be removed. Press the tape well to the wallpaper. By removing the self-adhesive tape you'll strip the alkali-block from the wallcovering. Removing the alkali-block has to be carried out before the wallcovering gets in contact to the dispersion glue.

As long as you have worked according to the regulations and instructions your EMC coverings will not only fulfil the demand of optimal shielding, but also provide a suitable lining for redecoration (painting or designed wallcoverings).