

YSHIELD

EMR - PROTECTION

YSHIELD EMR-Protection
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Handling and processing of shielding paints

Safety

- All usual safety procedures apply. This paint has a high coloring power, so please proceed with care. Cover all objects and all furnishing to keep from getting stained. Wipe off stains immediately with damp cloth. Do not let stains dry up. Do not inhale spray of paint. Make provisions for good ventilation while working with the paint and during the drying of the paint. Do not eat, drink and smoke while working with the paint. • In case paint gets on skin or in eyes rinse with lots of cold water immediately.

Grounding

- In compliance with DIN / VDE instructions all shielded areas have to be grounded by a licensed electrician. All the following procedures apply: Precaution against dangerous currents to prevent electrical accidents according to DIN 57100 / VDE 0100 part 410 and part 450. Grounding procedures according to DIN 57100 / VDE 0100 part 410 and part 450. Visual inspection and verification testing according to DIN 57100 / VDE 0100 part 610, paragraph 4 and 5, and EMC (electromagnetic compatibility) according to VDE 0100. • In all shielded areas / shielded rooms a personal protection circuit-breaker should be installed. • Always switch off power supply before starting to perform shielding work / before application of shielding paint. • For grounding only use YSHIELD Ground-Connection-Set ES in combination with Ground-Strap EB.

Areas of Application

- Depending on type of paint: for interior and/or exterior application. Please refer to our catalogue for detailed information. Interior paints: use only indoors on dry surfaces; not for use in humid environments. Exterior paints: for indoor and outdoor use, and for use in humid environments.

Underground

- Underground has to be solid, clean, degreased and dry, and has to provide adequate bearing capacity. • Remove grease stains, oil stains and loose parts. Old coats of paint and old wallpapers that are soluble in water have to be removed prior to application of paint. • Strongly absorbent surfaces have to be covered with a prime coat.

Preparation

- Open paint container and stir well, until the paint has a clearly homogenous appearance. • Never mix with other paints or with water!

Application

- Do not work at temperatures below +5°C/41°F (MFFT).
- Best use a first-class paint roller with fibers 10-13 mm long (pile height). Lacquer-rollers, foam-rollers or brushes are not recommended! • To achieve a constant attenuation of EMR, it is essential to apply paint with equal thickness; do not skip areas! • Always leave a minimum clearance of one inch to all electrical installations, like light switches or power outlets. • Remove paint spatters immediately with water.

Covering

- Depending on environment temperature and humidity, shielding paint needs 12 to 24 hours to dry. • The surface of the shielding paint layer has to be protected against mechanical damage. Interior: cover with two layers of latex or vinyl paint with good hiding power. Exterior: cover with two layers of hydrophobic latex facade paint.
- Do not use silicate paints, clay paints, lime cement paints, plasters, spackles, etc. These products may cause adhesion problems! If you intend to use any of those products as a top coat, always test for proper adhesion before application!

Storage

- Store cool and frost free. • Keep away from children.
- Once paint bin has been opened close tightly after each use, and use within a few days! • Depending on type of paint, paint expires 3 to 12 months after date of purchase.

Disposal of Paint

- Empty containers can be recycled. Dried up leftovers of paint can be disposed of in household waste. • Take liquid leftovers to waste collection centers. • Do not dispose of in sink, water or ground.

Further information

- For professional users an EG-/EU-MSDS is available upon request. • Like all electrical products and installations EMR-shielding products can and do pose a risk to consumer safety if improperly handled. YSHIELD therefore disclaims all responsibility for damages to persons and materials due to improper handling, application, installation or grounding of YSHIELD products.

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1 Assemble ground connection plate as shown in picture.



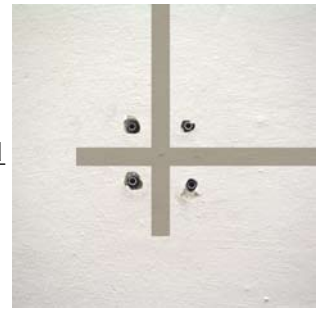
2 Install ground connection plate in a place that is readily accessible, but not openly visible. Install plate close to main ground connection, if possible. Accessibility of plate is necessary for visual control of ground connection. Mark location of holes for drilling.



3 Drill holes 6 millimeter in diameter and put in wall plugs / screw anchors. Check for electrical wiring in wall before drilling of holes. Do not drill holes close to electrical installation! Proceed with caution!



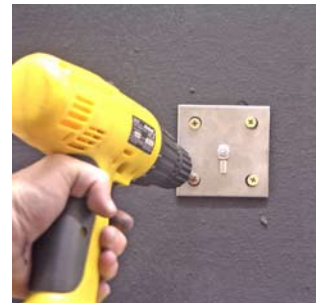
4 Attach Ground-Strap EB to wall, starting from ground connection plate. Important: to ensure proper grounding, strap needs to be applied in one piece, without interruptions, and needs to be applied to all shielded walls / areas.



5 Apply shielding paint to wall. Apply second coat of shielding paint to area where the ground connection plate will be mounted. Allow ample time for drying of paint.



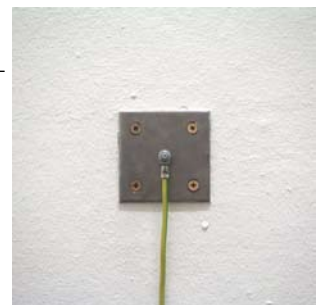
6 Mount ground connection plate to wall with fleece covering of plate pointing towards the wall. Tighten screws to ensure good connection between fleece of plate and paint coat.



7 Mask plate and apply top coat, e.g. white latex paint. For details, and how to choose the proper top coat type, please refer to leaflet "Handling and processing of shielding paints".



8 Crimp enclosed cable (Ø 2,5 mm²) into cable socket. Securely fasten cable socket (with cable attached) to ground connection plate.



9 Ground connection has to be installed by a licensed electrician. Options for ground connection: use a clip to connect cable to a blank / bare heating pipe, or connect to grounding bar in fuse box, or to main equipotential bonding system, etc.