

AURO Safe Shield No. 332

Technical Data Sheet

Type of material

Special shielding paint with Graphen technology based on conductive carbon particles in Replebin[®] binder, for interior use.

Intended purpose

- Effective protection against high frequency and low frequency electromagnetic radiation.
- For application on mineral and organic bases, e.g. wallpaper, plaster, clay, concrete, sand-lime brick, gypsum plaster boards, intact old coatings.
- Suited for interior surfaces.

Technical properties

- Electrically conductive
- Protection against high frequency radiation
- Protection against alternating electromagnetic fields
- Shielding effectiveness up to 31db (=99,9%) at 2450 MHz (IEEE 299:2006).

Composition

Water, Replebin[®], graphite, cellulose, surfactants made of rapeseed oil and castor oil, ammonia, sodium pyrithione, benzisothiazolinone, graphene. Consider possible allergies. Current full declaration on www.auro.com.

Color shade: Black. Cannot be tinted.

Application method: Apply evenly two thin coats with a shortpile roll. It is essential to avoid flaws in the coating.

Drying time in standard climate (20 °C / 65% rel. humidity)

- Drying time between Safe Shield applications: at least 6 hours.
- Overcoatable with wall paint after approximately 24 hours.
- High humidity levels and low temperatures prolong drying times.
- Provide for adequately tempered cross ventilation during the drying period.

Density: 1,15 g/ml

Thinner: Ready for application; can be thinned with max. 7,5% water (75 ml/l).

Consumption rate: 0.10 to 0.14 l/m² per coat, depending on the type of base and surface quality. Determine the exact application rate with a test coating.

Cleaning of tools

Press product residues out of brushes or rollers immediately after use and wash thoroughly in water. If necessary, add AURO Plant Soap No. 411*.

Storage: Keep out of reach of children. Store cool, frost-free and dry in tightly closed container.

Storage stability: In the original, tightly closed container at 18 °C: 12 months.

Packaging material: Polypropylene

Disposal

Liquid residues: EWC code 080120, designation: Paints. Only completely emptied containers with dried product residues can be returned for recycling.

ATTENTION Observe the usual protection measures, i.e. skin protection, adequate ventilation. In case of skin contact, rinse off immediately with water. In case of eye contact, flush immediately with plenty of water and consult a physician. For information on the safe handling of the product, for product labelling and for hazardous goods regulations, please refer to the current Safety Data Sheet and the product label.

No dangerous good. GIS-Code: M-DF01 dispersion paints, solvent-free.

EU VOC value according to 2004/42/EC II A (aWb): 30 g/l (2010). Product VOC: < 1 g/l.

Technical recommendations for application

AURO Safe Shield No. 332

1. SUBSTRATE

1.1 Suitable substrates

- Wallpaper, plaster, concrete, lime-sand stone, brickwork, clay, gypsum plaster boards, old coatings able of wetting (dispersions, lime paints, silicate paints).
- Conduct test coating to establish compatibility before application on glass-fibre fabric, textile, vinyl and structured wall coverings.

1.2 General substrate requirements

The substrate must be dry, clean, firm, chemically neutral to mildly alkaline, able to support, adhering, free from oil, fat, separating or staining substances.

2. COATING SYSTEM

2.1. Substrate preparation

- Brush off loose particles. Flourey and sanding substances must be removed by brushing.
- Remove sinter skin by grinding. Wash off releasing agents.
- Fill holes and cracks with AURO Wall filler No. 329* and sand smooth, remove burrs.
- Carefully reseal wallpaper seams; remove lime residues.
- Completely remove poorly adhering, peeling coatings, as well as old coatings that have a poor wetting ability or are otherwise improper.

2.2 Basic treatment

- Level substrates like lime-sand stone, gypsum plaster boards, or surfaces pretreated with AURO Natural wall filler No. 329*, AURO Skim coating No. 339* or similar.
- Prime strongly or unevenly absorbing substrates with AURO Plaster primer No. 301*. Roughen non-absorbing substrates and old coatings that are suited for renovation and, if necessary, apply AURO Grip coat No. 505* or 506* for structural equalisation.
- Observe topical sheet "High-grade lime range: Substrate preparation" (see www.auro.de/en/Service, Download).
- Before wall-papering work is carried out on the completely dried Safe Shield coat, apply a prime coat of AURO Plaster primer No. 301*, diluted with water in a 1:1 ratio.

2.3 Intermediate treatment

- Apply evenly 2 coats of AURO Safe Shield No. 332 with a shortpile roll, allow for at least 6 hours drying time between coats
- Depending on substrate quality and method of application, AURO Safe Shield can be diluted with up to 7,5% water (75 m/l).

2.4 Final treatment

The overcoating options are:

- AURO Ecolith interior lime No. 341* (white) or AURO Ecolith interior lime No. 584* (coloured) are especially recommended
- AURO Safe Shield No. 332* can also be coated with all other AURO wall paints.

3. REMARKS

- The shielding substances in AURO Safe Shield No. 332 can reduce the abrasion resistance of subsequent coatings.
- Before application, check substrate on suitability and compatibility.
- Avoid direct exposure to sunlight, moisture influences and dirt during application and drying.
- Batch-induced differences of product characteristics, as well as the typical product odour, are due to the use of natural raw materials. Mix products with different batch numbers prior to application to offset batch-induced differences.
- Process temperature at least 10 °C, max. 30 °C, max. 85% rel. humidity, optimal 20-23 °C, 40-65% rel. humidity.
- Stir thoroughly prior to application.
- Protect surrounding surfaces, remove stains and spatters immediately with water and AURO Plant soap No. 411*.
- Leave new plasters and lime-sand brick walls untreated for at least 6 weeks; neutralise if necessary.
- Avoid partial drying and work speedily wet-on-wet.
- Check and maintain the surfaces regularly for optimal, permanent protection and immediately repair damaged areas.
- Observe the state of the art for planning and coating (applicable regulations and procedures).
- All coating work must be adapted to the given object and its use.

IMPORTANT ADDITIONAL INFORMATION

AURO Safe Shield No. 332* is a conductive coating product. In order to ensure full safety, the surface of every wall treated with the product has to be connected with a conductive earth contact that has been previously tested on proper equipotential bonding. This has to be done observing specific regulations. In Germany these are the DIN VDE provisions; please check which rules and regulations apply in your country. Make sure that the grounding is carried out by expert staff, e.g. an electrician.

Please see www.auro.de/en/service/downloads/the-topical-subject/ for more information on AURO Safe Shield No. 332.

* See respective Technical Data Sheets.

The Technical Data Sheet gives recommendations and examples of possible use. No liability or other legal responsibility can be derived. Use of the advice does not create any legal relationship. The information provided is based on our present knowledge and does not exempt the user from his personal responsibility. The respective state-of-the-art practices must be observed when implementing coating work and the required preparations. The conditions on site and the product's suitability must be checked appropriately and professionally. With publication of a new edition this technical data sheet is no longer valid.
Status: December 2019