

**ZERTIFIKAT PAINT WITH CERAMICS MICROSPHERES
MATTE FINISH
V8410/ SF V8410/2022**

TECHNICAL DATA SHEET

Product description:

Description:

Zertifikat with matte ceramic microspheres V8410 is a high-quality washable dispersion paint, with ceramic microspheres, matte finish, resistant to dirt and stain, intended for special finishes and covering frequently used inner and outer surfaces.

Use:

Zertifikat with matte ceramic microspheres V8410 can be applied indoors, on all types of masonry surfaces, painting, plaster, concrete, surfaces made of mineral materials, including AAC, plasterboard, drywall tiles, but also on the outside when painting facades.

This paint can be used with excellent results for renovations, in sensitive rooms for living spaces or work environments, for interior and exterior painting of walls and ceilings with a high degree of stress. It is ideal in achieving a protection of the walls when washing with detergents, water-based disinfectants, household cleaning agents in spaces such as: hospitals, clinics and medical offices, maternity wards, schools, kindergartens, restaurants, etc. or for any other rooms that are subjected to frequent decontamination.

For to obtain optimal resistance to stain removal, the film must be left to mature for min. 7 days from application. The more recently the paint is applied, the less stain resistance it has. Tea, coffee, wine, chocolate, juice, oil, ketch-up, pens, pencils, dust, fingerprints can be easily removed. Marker stains cannot be removed.

Main features:

- uniform, glossy film
- very good coverage
- low emissions, solvent-free, emollient-free
- easy to apply
- washable product – resistant to wet friction (class 1 washable as per SR EN 13300:2002)
- very resistant to cleaning, water-based disinfectants and household cleaning agents
- high diffusion capacity, ensures the breathing of the wall
- very good adhesion to the support
- increased resistance to washing dirt and removing stains

Stain wiping can be achieved if the stain is removed at the earliest possible time. The stain can be removed after staying a longer time on the film, but the result of erasing is influenced by the time, chemical nature and intensity of the color of the substances acting on the film.

Compatibility:

Mixing V8410 with other products is not recommended, except for those recommended by the manufacturer.

Shelf life in the package:

- **48 months** from the date of manufacture, under the conditions of compliance with the packaging and storage provisions.

Packaging:

The V8410 product is packed in PVC containers of 3L, 8.5L and 15L capacity.

Storage:

Closed, dry, covered, airy spaces, away from the action of weathering and solar radiation, away from fire sources, at temperatures ranging between 5-25C.°

Transportation:

The shipping of the products shall be performed by means of transport covered according to the regulations in force.

Certification:

The V8410 product is covered by a technical agreement performed by ICECON Bucharest and issued by the Permanent Technical Board for Constructions in Bucharest.

TECHNICAL QUALITY FEATURES

Table no.1

| No Crt | Feature name | MU | Feature value | Test method |
|-----------------------------------|--|-----------------------|--------------------|-----------------------|
| | | | V8410 | |
| a) liquid product features | | | | |
| 1 | Appearance | - | viscous suspension | visual |
| 2 | Color | - | white | visual |
| 3 | Content of non-volatile substances, 0.5g/ 50cm ² , 105 °C, 10 minutes | % | 60.5±2 | SR EN ISO 3251:2019 |
| 4 | Stormer Viscosity, 25 °C, | UK | 115-125 | ASTM D 562-10 (2018) |
| 5 | Density, 23 °C | g/ cm ³ | 1.36 ± 0.05 | SR EN ISO 2811-1:2016 |
| 6 | pH | - | 8.5 – 9 | Internal method |
| b) film features | | | | |
| 1 | Aspect | - | silky, matte | visual |
| 2 | White intensity, Wi (slit applicator 200µm), min. | % | 87 | ISO 18314-3 |
| 3 | Gloss, 85° | GU | ≤10 | SR EN ISO 2813:2015 |
| 4 | Contrast ratio, CR, slit applicator 200µm, min. | % | 98 | Internal method |

Product technical data:

Details regarding application:

V8420 is applied as follows:

- roll in 2 undiluted layers; or, roll the first layer at about 5% dilution with cold, clean water (15-25 °C), and then apply the second layer undiluted
- air spraying or airless in 2 layers, undiluted.

Method of application:

- roll
- airless spraying

Re-cover:

- min. 2 hours

Specific consumption:

- up to 12m²/l/layer, depending on the roughness and degree of absorption of the applied surface. Consumption may vary depending on the conditions of application (surface geometry, method of application, environmental conditions, nature and surface preparation).

Drying time:

Drying times depend on the temperature and thickness of the film, with more time needed under lower temperature and the increasing degree of thickness of the film. Poor air circulation, excessive humidity and low oxygen content negatively influence the drying process and lead to deterioration of the characteristics of the film.

Instructions for application

Surface preparation:

The application of the product on the support will be made only after its proper preparation, as this stage has a decisive influence on the quality of the coating and its durability.

Preparation of the product:

Before opening the package, wipe the traces of water, oil, fat or other mechanical impurities off it to prevent contamination of the product. Condition the product at 15-30 °C. Remove any shells formed on the surface of the product. Mix the contents in order to homogenize with manual or mechanical means.

New surfaces:

- level such surfaces by rubbing them with pumice stone, tiles, well burnt brick or with a piece of fir plank, by applying circular movements and keeping permanent contact with the surface of the plaster; for large areas use electrical grinding devices
- open the existing cracks with a knife and repair them with cement mortars, plaster or other filling and leveling materials; for cracks with depths of max. 2mm, use a STUC C4000 knife putty for masonry; for higher thicknesses it is recommended to successively apply several layers of putty, with intermediate grinding and dedusting
- plasters that prove inadequate by testing them with a hammer need to be completely removed, all the way to the masonry; if the portion is small, repair it with cement paste with rapid hardening; on large areas, use mortar of the same kind as the existing plaster
- the plaster layer is made of plaster paste or STUC C4000 masonry putty for masonry, the latter being particularly fine and white, with quick drying and very good grinding capacity after complete drying; remove the dust resulting from the smoothing of the surfaces with brushes / brooms or blow with compressed air
- the larger/obvious sand granulations on the surface of the plaster must be removed because they will detach, in time, together with the finish, by touch
- during the entire period of redressing or repair of the areas, the temperature of the support must be at least 5°C.
- fresh plaster is left for at least 24 hours for complete drying before applying the finish layer

Surfaces with previous coverage:

- the condition of the plaster is checked by hammering; for the portions that detach, the plaster needs to be restored and the affected edges must be fixed; old, non-adherent paints shall be completely removed by scraping them with a steel palette knife, burning with a gasoline lamp or using special chemical solutions
- any repairs are performed with cement pastes, plaster or adequate sealing materials; afterwards, remove the dust resulting from the post-repair grinding

Priming surfaces before application:

- the purpose of this stage is to soak the support and anchor the already existing paint layer on the stains, if it is quite resistant and it is yet to be removed; priming evens the absorption of the support so that the last layer of finish appears perfectly homogeneous and stain-free
- it aims at increasing the adhesion between the applied product and the support
- priming is mandatory and it consists in applying at least one layer of primer G8101 for masonry diluted 1:5 with cold, clean water (15-25 °C); for excellent results it is recommended to apply a layer of white primer Putzgrund Weiss" G8105 diluted at a maximum of 10% with cold, clean water (15-25 °C);
- only perform priming only after the repaired or re-plastered surfaces have completely dried
- freshly plastered and repaired areas must be additionally primed due to the higher degree of absorption they present; the product can be applied after drying the primed surface

Conditions of application:

- ambiental and support temperature: 15-30 °C
- relative humidity of the environment: max. 70%
- it is recommended to ventilate the workspace

Remarks:

Failure to comply with these conditions may lead to the occurrence of defects or to the total compromise of the protection.
The application with inappropriate instruments may lead to obtaining some different appearances and thicknesses compared to those declared in the present technical data sheet.

Application instructions:

After conditioning at 15-30°C and homogenization, apply the product to the properly prepared surface by rolling or airless spraying:

- roll in 2 undiluted layers; or, roll the first layer at about 5% dilution with cold, clean water (15-25 °C), and then apply the second layer undiluted
- air spraying or airless in 2 layers, undiluted

For outstanding results in application, aim at increasing the adhesion between the applied product and the support and as such, the mandatory priming of the surface is recommended before application with the G8105 primer; in case of cracks with depths of maximum 2mm, use vinyl stucco C4000.

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|-------------------------------|--|
| <u>Security data:</u> | See the product's safety data sheet. |
| <u>Safety at work:</u> | All operations of handling, transport, storage, use will be done in strict compliance with the rules of fire prevention, labor protection and sanitary hygiene. As it is dilutable in water, it does not pose special problems of safety at work. Avoid contact with skin, eyes and mucous membranes. In case of contact with the skin wash with warm water and soap. In case of contact with eyes, wash abundantly with water and then consult a specialist. |
| <u>Note:</u> | The above data carries a general nature regarding the performance and use of the product, so we recommend testing the product in the beneficiary's own technical setting for application. Please consult the manufacturer for further clarification. |