



TECHNICAL DATA SHEET

30215 UNTERWASSER-FARBE

AREA OF APPLICATION

Unterwasser-Farbe is a water-resistant coating for mineral substrates in underwater areas. The product is used for coating new substrates or for overcoating old coatings on a chlorinated rubber base in exteriors. It can be used in ponds, swimming pools, paddling pools, and ornamental ponds, for example. Not suitable for drinking water. Not suitable for GFRP and foil pools.

PROPERTIES

- Weatherproof
- Easy to apply
- Not a breeding ground for algae and fungi, etc.
- Resistant to chlorine water
- Resistant to commercially available swimming pool cleaning agents
- Heat-resistant up to + 80°C (dry heat)
- Not resistant to grease and oils

COLOUR SHADE: 5450 blue, 6480 green, 9110 white

Adding tinters reduces the paint's resistance.

CONTAINER: 750 ml, 2.5 l, 10 l

The colour shades 6480 green and 9110 white are only available in 2.5 litre containers.

COVERAGE: approx. 150 ml/m² per coating. The consumption value depends on the specific substrate and should be determined by applying a sample coat if necessary.

GLOSS LEVEL: silk gloss

AREA OF APPLICATION

GENERAL RULES:

The substrate must be prepared and the coating work performed in accordance with the state of the art. All coatings and preliminary work should always be geared towards the project and the requirements it is exposed to. Please also observe the current BFS data sheets, published by the German Federal Committee for Paints and the Protection of Objects. Also see German construction contract procedures (VOB), Part C, DIN 18363, Paragraph 3 "Painting and coating work". Treating/removing layers of paint by sanding, welding, burning off, etc. can cause harmful dust and/or vapours. Only carry out work in well-ventilated areas. Use appropriate breathing apparatus/protective equipment, if necessary.

All substrates must be clean, dry, load-bearing, and free from release agents. Substrates must be checked in terms of their load-bearing capacity and suitability for subsequent coatings. If necessary, create a test surface and test the adhesion by means of a cross cut and/or mesh tape tear-off. For coating build-ups, carry out intermediate sanding in between the individual coatings.

SUBSTRATE

Below water level:

Concrete, special renders on a purely mineral base, and existing paint coats on a chlorinated rubber base.

Above water level:

Concrete, cement render, primed metals.

SUBSTRATE PREPARATION:

Below water level, Unterwasser-Farbe is only permitted for use on mineral substrates (e.g. concrete, cement render) or existing paint coats on a chlorinated rubber base. To avoid bubble formation, the external walls of ponds must be isolated against moisture from the soil.

NEW MINERAL PONDS:

Allow new cement renders or concrete to dry for at least 28 days before coating. Only purely mineral materials that have been approved for use under water may be used to touch up cracks and holes. Do not use polymer-modified repair compounds. Carry out a wetting test with water to check the absorption capacity of the substrate. Roughen smooth non-absorbent substrates, remove any sintered layers (e.g. by grit blasting).

MOISTURE TEST:

Carry out a moisture measurement using the CM method. The residual moisture must not exceed 4 % in concrete and cement substrates.

In good weather conditions, the foil method can be used: stick approx. 1/2 m² of relatively strong polyethylene foil (masking foil) firmly to the substrate on all sides with adhesive tape (do this in several places). Check back after 1 – 2 days. Result: if condensation has formed – the substrate is still too damp; leave it to dry for longer.

EXISTING PAINT COATS:

Unterwasser-Farbe can be painted over coatings on a chlorinated rubber base. Coatings on a chlorinated rubber base can be identified by carrying out a "solvent test", e.g. with SÜDWEST 2K-Acryl-Verdünnung.

Coatings on a chlorinated rubber base are reversible; they go soft and sticky quickly during the solvent test. Existing paint coats that do not dissolve quickly during the solvent test are not suitable substrates for Unterwasser-Farbe.

Thoroughly clean intact existing paint coats on a chlorinated rubber base, e.g. with a jet wash. Remove grease, dirt, algae, and limescale deposits carefully with a commercially available swimming pool cleaning agent. Wash subsequently with clean water and leave to dry.

Remove non-adherent existing paint coats on a chlorinated rubber base, e.g. by grit blasting or sanding. Sand edges and transitions. Treat exposed areas in the same way as described for mineral substrates. In particular, also carry out the moisture test as described above.

LADDERS, LAMP HOLDERS, ETC.:

Steel, rigid plastics, or aluminium cannot be coated with Unterwasser-Farbe under water.

METALS BELOW WATER LEVEL:

Prime metal substrates below water level with SÜDWEST 2K-Epoxi-Füllprimer. Observe the Technical Data Sheet.

APPLICATION

MINERAL SUBSTRATES:

Prime prepared mineral substrates with thinned Unterwasser-Farbe (approx. 20 – 25 % with SÜDWEST 2K-Acryl-Verdünnung) and leave to dry overnight. Apply the primer coat with a paint brush/block paint brush. Then apply 2 undiluted coatings of Unterwasser-Farbe by brush or roller. Watch for bubble-free drying behaviour when applying by roller.

APPLICATION CONDITIONS:

Do not apply or leave to dry at an air or project temperature of less than +5°C. Do not apply in direct sunlight.

EXISTING PAINT COATS ON A CHLORINATED RUBBER BASE:

After the pre-treatment described, apply 2 coats undiluted by brush or roller.

PRIMED METALS BELOW WATER LEVEL:

After the pre-treatment described, apply 2 coats undiluted by brush or roller.

DILUTION:

If necessary, dilute with SÜDWEST 2K-Acryl-Verdünnung or Nitro Universal Thinner.

TOOL CLEANING:

Clean with universal nitro thinner after use. Dispose of cleaning agents properly.

DRYING

(20°C / 60 % rel. humidity)

Dust-dry: after approx. 15 minutes

Can be painted: after approx. 12 hours

First filling: after min. 14 days

(rainy days do not count). Fill ornamental fishponds once with water but without fish, and then drain. We recommend waiting 5–6 weeks after filling a pool with water before adding fish.

SPECIAL INFORMATION

Do not work in strong, direct sunlight or on heated substrates – risk of bubble formation. Keep away from naked flames and do not smoke when applying the product. Ensure good ventilation. Solvents weigh more than air; they accumulate in the pool and can lead to acute oxygen deficiency. Therefore, for safety reasons, there must be a person in attendance outside the pool. Wear an effective respiratory protective device if necessary.

Changes in colour shade due to fading:

Over time, changes in colour shade may occur in the coating (especially in the edge zone between water and air) due to the effects of UV light, chemicals such as chlorine or active oxygen, grease, and/or limescale. This is not a quality defect and has no effect on the durability of the coating.

Warning: In isolated cases, disinfectants added to the pond can cause rapid changes to (fading of) the Unterwasserfarbe colour shade. The compatibility of Unterwasser-Farbe with a disinfectant can be determined on a sample surface area with Unterwasser-Farbe as follows: paint the sample surface area on a neutral substrate (e.g. a cardboard box) and leave to dry for 5 days. Soak a cotton pad in the disinfectant and place on the sample surface area for approx. 12 days. If there is a visible change in colour shade on the contact surface, the disinfectant is not suitable for Unterwasser-Farbe.

EC DIRECTIVE 2004/42/CE

The Unterwasser-Farbe product is out of scope of the VOC Directive.

VDL DECLARATION

Chlorinated rubber, mineral white pigments, mineral extenders (mineral and/or organic pigments, depending on the colour shade), aromatic hydrocarbon mixtures, acetates, alcohols, antifoaming agents, rheology additives, adipates

GISCODE BSL50

GENERAL SAFETY ADVICE

Good ventilation must be ensured while paints and varnishes are being applied and are drying. Keep away from food, drink, and animal feed. Avoid contact with skin and eyes. Do not breathe in dust during sanding work. Only use in well-ventilated areas. Do not eat, drink, smoke, or inhale snuff tobacco during work. Keep out of reach of children. Do not allow to enter the sewer system or bodies of water. If rivers, lakes, or drains become contaminated, inform the relevant authorities in accordance with the local laws.

Further information and the current safety data sheet are available at www.suedwest.de.

STORAGE

Close opened containers so that they are airtight after use. Store in cool but frost-free conditions.

DISPOSAL

Only return empty containers for recycling. Dispose of containers with residues at the responsible hazardous waste centre. Dispose of dried paint brushes and rollers with residual waste. Do not dispose of paint or rinse painting tools in sinks or drains.

TECHNICAL CONSULTATION

Our sales force will be happy to answer any questions which have not been covered by this Technical Data Sheet. Our technical customer service team at the factory is also available to answer any detailed queries you may have. (06324/709-0).

DISCLAIMER

We are committed to taking the utmost care. However, we are only able to provide general information based on our

own experiences, developments, and investigations, and these naturally cannot take the individual conditions of a project (substrates, weather conditions, other conditions) into account. The applicator is therefore obliged to maintain their knowledge in accordance with the state of the art and act responsibly. Our

employees are available to provide specific advice and will be happy to do so. We accept no responsibility for the use of the product in combination with other products. The data provided in this Technical Data Sheet does not constitute binding information or liability.

Furthermore, suspension or the appearance of a subsequent edition will invalidate this Technical Data Sheet; information about this can be accessed at any time on our website: www.suedwest.de.

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