

Waterproofing Systems / Hybrid Polymers

AQUAMER® HB INVISIBLE

Hybrid Polymer Based Transparent Coating and Waterproofing Material

Approved by METU Chemical Engineering Dept.
 for drinking water contact compatibility
 Report no: 2014.03.04.866/03

DESCRIPTION

Single component, ready-to-use, solvent and isocyanate free, UV resistant, high technology **transparent** coating and waterproofing fluid material produced with **silane terminated hybrid polymer** technology. Suitable for light pedestrian traffic.

APPLICATION AREAS

- Indoor and outdoor
- Balconies and terrace roofs with light pedestrian traffic,
- Balconies and terraces covered with glazed tiles, ceramics, natural stone, marble, floor tiles, to provide waterproofing without changing the appearance of the material,
- Reinforced concrete, plaster and screed,
- Covering cracks upto 2 mm,
- Mosaics and mosaic tiles,
- Glass and glass brick,
- Metals such as iron, steel and aluminum,
- Roof coverings such as CTP, PVC and polycarbonate,
- Wet areas such as bathrooms and kitchens,
- Parquet, wooden doors and window frames as a protecting coating and waterproofing material,
- Joint combinations of all of the materials recommended above.

TECHNICAL PROPERTIES

Appearance	Transparent liquid coating
Density	1.10 ± 0.05 kg/L
Application Temperature	Between +5°C and +35°C
Hardness (Shore D)	35 ± 5
Elongation at Break	> 100% (7 days)
Film Formation Time	70 ± 30 minutes
Curing Rate	1 mm / 24 hours
Service Temperature	-30°C / +80°C

ADVANTAGES

- Decorative; enables waterproofing without damaging the existing coating and does not change the appearance of the coverings as it is transparent.
- Does not cause color changes due to oil bleeding on materials such as natural stone or marble, as it does not contain silicone oil or plastifiers.
- Resistant to the abrasion caused by light pedestrian traffic on terraces and balconies.
- Bonds even on **damp surfaces**, provides **high adherence**.
- **Resistant to UV**, does not crack, sag or turn to yellow. Can be safely used outdoor
- Does not contain **solvent** and **isocyanate** which are harmful to human health and to the environment. Can be safely used indoor and in contact with potable water.
- **Has medium flexibility**, continues to adhere, to cover and to protect the building from the cracks which are formed or expands in joints of roof etc. due to the movements of the buildings. It does not lose its technical properties after being cured. Turns to its original form.
- **Has 100% elastomeric composition**; does not shrink as it does not contain solvent.
- Almost odorless.

- Easily and quickly applied with brush or roller. Does not form seams.
- Protects its elasticity even in low temperatures when cured.

CONSUMPTION

To prevent surfaces from dusting and from dirt: appr. 0.2 kg/m² in single layer
Non-absorbent surfaces (tiles, ceramics): appr. 0.7 kg/m² (2 x 0.35 kg/m²) in 2 layers
Absorbent surfaces (concrete, wood, natural stone): appr. 1.0 kg/m² (3 x 0.35 kg/m²) in 3 layers

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be clear of materials that prevent bonding such as dust, oil, tar, paint, silicone, curing materials, detergents and mold release agents.
- Repair the weak parts of the concrete and remove poorly adhered plasters, make the surface smooth and solid. Repair the static cracks in the building with plaster with **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage Compensated Grout Mortars**. Repair the dynamic (moving) cracks with FIXA's suitable MS, hybrid or polyurethane sealants. Seal any areas of water ingress with **AQUASTOP**.
- Under normal conditions, there is no need for primer. However, if the surface is dusty or excessively wet, prime with **POLAN A Polyurethane Floor Primer**. Apply the product within 6 - 18 hours after priming.

APPLICATION

- AQUAMER HB Invisible is ready-to-use. Do not dilute or add any external substance. Mix before use.
- Cut the aluminum packaging of AQUAMER HB INVISIBLE from the top corner in a triangle shape with scissors and pour directly onto the surface. Apply with a spatula, flat or notched trowel.
- Apply AQUAMER HB INVISIBLE in two layers perpendicular to each other. Wait 6 - 18 hours after the application of the first layer.
- For a smooth finish at the borders of the application area, surround the determined area with masking tape. Remove the tape in maximum 5 minutes after application.
- The area can be open for use in 24-48 hours, final curing takes place after 7 days.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Do not add water or solvent.
- Protect the surface from water, rain, dew, frost and snow until it is completely dry.
- Makes the surface shiny.

PACKAGING

1 kg tin cans
5 kg plastic buckets (5 kg aluminum foiled package)

SHELF LIFE

Expires in 12 months. Store unopened packages between +10°C and +25°C dry environment, protect from sunlight, stack up to 3 packages on the pallet.

HEALTH AND SAFETY



Technical Data Sheet (TDS)

Form No: 5.01 TDS Aquamer HB INVISIBLE
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As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, wash with plenty of water. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.