



BONDING & ASSEMBLY



WACKER® 121 AQUARIUM

Is a one-component, acetic cure silicone sealant especially developed for industrial applications as well as assembly of aquarium units. The selection of the raw materials is decisive so as not to harm the aquatic life in such an aquarium; strict adherence to the DIN 32 622 is imperative.

Applications

- Especially suitable for the assembly of an aquarium meeting the requirements of DIN 32 622. Ensure the bond thickness is at least 1 mm.
- Temperature for this specific application must be between +15 °C and +40 °C

Benefits

- 1K cure
- Low shrinkage upon cure
- Excellent mechanical properties
- High viscosity paste-like sealant

Standards

- ASTM C920 Class 25
- ISO 11600-G Class 20HM
- DIN 32 622

Colors

- Transparent, black

Packaging

- 310 ml cartridge

Properties Cured	Value	Method
Movement capability	25.0%	ISO 9047
Modulus at 100% elongation (S2-dumbbell)	0.40 N/mm ²	ISO 37
Modulus at 100% elongation (joint)	0.50 N/mm ²	ISO 8339-A
Curing time	3.0 mm/d	-
Hardness Shore A	22	ISO 868
Tensile strength (joint)	0.70 N/mm ²	ISO 8339
Tensile strength (S2-dumbbell)	1.6 N/mm ²	ISO 37
Ultimate elongation (S2-dumbbell)	500%	ISO 8339-A
Ultimate elongation (joint)	150 %	ISO 8339-A

These figures are only intended as a guide and should not be used in preparing specifications.



WACKER® HS – HYBRID SEALANT

Is a one-component, high modulus so-called hybrid sealant suitable for sealing jobs where paintability of the cured sealant is desirable. It will adhere to many typical construction substrates such as found in e.g. perimeter sealing.

Applications

- Connection joints that are subsequently painted.
- Fixation where flexibility is required.
- Sealing joints where bonding between dissimilar materials requires the use of hybrid technology.
- Stress relieving bonding and fixation.

Benefits

- 1K cure
- Swift tack-free cure
- Non-corrosive
- Virtually odorless
- Paintable
- Solvent, isocyanate, phthalate free
- Stable at wide temperature range, from - 40 °C to +80 °C

Colors

- White, gray, black

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Method	Unit	Method
Tensile strength	ISO 37 – rod 1	N/mm ²	1.7
Elongation at break	ISO 37 – rod 1	%	350
100 % Modulus	ISO 37 – rod 1	N/mm ²	1.1
Hardness Shore A	ISO 868	-	50
Tear strength	ISO 34 – C	N/mm	9

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WACKER® HA – HYBRID ADHESIVE

Is a one-component so-called hybrid adhesive suitable for a variety of bonding or adhering jobs in and around the construction site. It exhibits good adhesion profile to a wide range of typical construction substrates.

Applications

- For bonding many dissimilar materials such as wood, glass, metals and plastics as well as mineral-based substrates.
- Equally suitable for the fixation of skirting boards, cable ducts and construction panels, especially where these need to be subsequently painted.

Benefits

- 1K cure
- Swift tack-free cure
- Fast strength build up
- Very strong and tack-free after cure, even under water
- Non-corrosive and non-staining
- Virtually odorless
- Paintable
- Solvent, isocyanate, phthalate free
- Stable at wide temperature range, from -40 °C to +80 °C
- Highly resistant to media such as mineral oils, solvents, acids and alkalines
- Silicone free technology

Colors

- White

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Method	Unit	Method
Tensile strength	ISO 37 – rod 1	N/mm ²	2.9
Elongation at break	ISO 37 – rod 1	%	200
100 % Modulus	ISO 37 – rod 1	N/mm ²	2.4
Hardness Shore A	ISO 868	-	70
Tear strength	ISO 34 – C	N/mm	14

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