



WA 91

Three part epoxy adhesive and grout

DESCRIPTION

WA 91 is a high performance epoxy adhesive and grout that exhibits superior bond strength and chemical resistance. It is designed for fixing and grouting tiles and stones on metal or fiber glass surfaces. Also suitable for installation of natural stones and agglomerates that have a tendency to stain or warp when installed with water based adhesives.

USES

- Fixing tiles in Swimming Pools made of GRP & FRP
- Fixing of moisture sensitive stones and agglomerated marbles
- Fixing tiles and stones on impervious surfaces like metal.
- Suitable for internal & external applications

FEATURES

- Non slump: Suitable for fixing tiles on vertical surfaces
- Resistant to chemicals and a variety of acids: Suitable for tiling in chemical prone areas
- Water impermeable: Protects moisture-sensitive substrates from water and moisture
- High mechanical strength and good adhesion
- Can be used in submerged conditions
- Capable of withstanding minor vibration movements
- Workable and easy to grout joint width from 2 to 10 mm
- Available in Grey and White.

PHYSICAL PROPERTIES

WA 91	@ 27 ± 1°C
Appearance	
Part A	Coloured liquid
Part B	Straw coloured liquid
Part C	White powder
Mixed density	1.61 g/cc
Pot Life	45 minutes
Open Time	20 - 25 minutes
Adjustability	20 - 25 minutes
Setting Time	24 hours
Temperature Resistance	-30°C to 50°C (Intermittent up to 70°C)
Bond strength	1.5 N/mm ²
Compressive strength	60 N/mm ²
Tensile strength	15 N/mm ²
Flexural strength	25 N/mm ²
Water Absorption	Nil
Shore D Hardness	70
Full cure	7 days

COVERAGE ESTIMATES

Pack size	Coverage
4.2 kg	approximately 1.73 m ²
Part A 1.0 kg	@ 1.5 mm bed thickness
Part B 0.4 kg	
Part C 2.8 kg	

Note: The coverage will vary depending on substrate condition, tile type and application technique.

SUITABLE SUBSTRATES

- Fibre Reinforced Plastic (FRP) & Glass Reinforced Plastic (GRP)
- Medium density fibre-cement sheet, Plasterboard
- Glass, Metal, MS and Aluminum surfaces.
- Existing ceramic and stone tiles
- Concrete, Renders, Screeds

Note: For application on other substrates, please contact the ARDEX ENDURA personnel for technical assistance.

APPLICATION INSTRUCTIONS

Substrate Preparation

The surface being adhered to must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials. It should be being sound and strong enough to support the weight of the tiles or stone being fixed. Ensure surfaces are dry before tiling, with no residue or permanent dampness. Metal surfaces have to prepared as per surface preparation to SA 2½ profile.

Mixing

Add Part B to Part A in a suitable, clean container and thoroughly mix together using a slow speed (less than 300 rpm) electric drill mixer. Slowly add Part C and mix until a uniform colour is achieved.

Bedding

Apply the mixed WA 91 to the substrate using a suitable sized notch trowel (4mm or 6mm) depending on the size and thickness of the tile. For large format tiles, solid bed fixing can be achieved by back buttering the tile with a thin layer of WA 91 before fixing into the notched bed. The adhesive will have adjustability time up to about 25 minutes and harden after 45 minutes.

Tiles/stones should be pressed into place and properly aligned; ensuring full contact with the adhesive. A minimum tile joint width of 2mm must be left for the grouting and 3mm where thicker tiles are used.

Usage as a Grout

Grouting can proceed once WA 91 has hardened sufficiently so that tiles will not be dislodged, approximately after 8 hours (at 23°C and 50% relative humidity). Allow longer for low temperatures. Joint width: 2-10mm

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Protect the finished surface from traffic during its drying time atleast for 24 hours. For facades and applications involving heavy tile or stone on the wall, we strongly recommend the use of additional mechanical fixing.

For fully immersed situations, before water is filled we recommend a minimum cure time of 48 hours (at 23°C and 50% relative humidity).

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

STORAGE & SHELF LIFE

WA 91 has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened container. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



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