

# **ARDEX WPM 501**

# (HydrEpoxy 501 Adhesive)

Water Based Epoxy Structural Adhesive

Can be applied to freshly laid (green) concrete

Excellent adhesion to most substrates

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# **ARDEX WPM 501**

# (HydrEpoxy 501 Adhesive) Water Based Epoxy Structural Adhesive

#### PRODUCT DESCRIPTION

ARDEX WPM 501 (HydrEpoxy 501) is a two component water based epoxy high-bodied polyamide environmentally friendly structural adhesive.

# FEATURES/BENEFITS

- · Easy clean up using water.
- Can be applied to damp surfaces.
- Cures underwater in fresh, chlorinated and salt waters.
- Resistant to fresh, chlorinated or salt waters.
- Can be applied to freshly laid (green) concrete.
- · Non-flammable, very low odour and toxicity.
- Can be applied to interior or exterior surfaces.
- May be used as an admixture with cement to form a patching mortar.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibre board, PVC, rubber, surface wallboards and timber, including parquetry.

### **TYPICAL USES**

- As a waterproof structural adhesive for wet areas.
- As a waterproof adhesive in the bonding of floor and wall coverings such as Versilux or Hardiflex.
- As a waterproof adhesive in the bonding of flashings such as hypalon or butyl rubber, fibre cement, rigid PVC or galvanised surfaces.
- As a waterproof high strength adhesive in the wet or damp, edge or face bonding of Compressed Fibre Board or Sheet.
- As a sandable filler over recessed fixing screws or surface imperfections.

# **LIMITATIONS**

Do not use in contact with uncoated steel – Consult ARDEX in regard to other metals and alloys.

The product should be applied whilst the surface temperature is between 10-35°C. The product will cease to cure below 10°C, but will recommence curing when the temperature rises above  $10^{\circ}$ C. Curing time will also be adversely affected in situations where relative humidity is >85%.

The addition of cement will significantly reduce the working pot life.

ARDEX WPM 501 is a semi rigid adhesive and should not be used where expansion and contraction is expected.

#### SURFACE PREPARATION

All surfaces to be treated must be structurally sound, existing coatings, adhesives, efflorescence should be removed. Surfaces must be cleaned from dirt, grease, oil, or other surface contaminants.

Holes, non-structural cracks or other surface deformities should be primed with Structural Adhesive 501 thinned with water. The defects should then be filled with a mortar prepared from 1 part cement, 2 parts sand and 1 part Structural Adhesive 501 and allowed to cure for 2-3 hours (pot life is reduced when mixed with cement).

#### **APPLICATION**

Each component should be mixed to redisperse any liquid and to form a smooth uniform paste.

Thoroughly mix the two components in the ratio of 1:1 by volume until a homogeneous paste is obtained. Only mix as much as may be used within the pot life of the product.

When bonding compressed sheet, butter the adhesive onto both edges and push together gently until the glue line thickness is 1mm (i.e. the edges of the board are separated by 1mm of adhesive).

For bonding wall coverings and other broad span surfaces, apply the ARDEX WPM 501 using a medium saw tooth notched trowel to the substrate only and press the covering material into the adhesive. Ensure the entire surface is coated with the adhesive to ensure maximum bond strength.

The size of the notch trowel will depend on substrate and the profile of the material to be bonded. Peaks of adhesive should be able to be compressed by 2-3mm when bonding.

When bonding flashings apply ARDEX WPM 501 with a notched trowel or glue spreader to the substrate surface only.

Lay the flashing immediately onto the adhesive and press firmly into position. Remove all excess with a damp sponge.

# **CLEANING & THINNING**

Structural Adhesive 501 should not be thinned when used as an adhesive.

Wash all equipment in warm water or water/detergent immediately on completion of the work.

# **PROPERTY DATA**

**Colour** Grey **Volume solids** 52%

Mixing ratio1:1 (Part A/Part B) by volumePot life2 hours @ 25°C 1 hour @ 35°CCoverageFull cover (with notched trowel)<br/>2m²/litre (note: coverage will

2m<sup>2</sup>/litre (note: coverage will vary depending on substrate)

 Hard time
 24 hours @ 25°C & 50% R.H.

 Full cure
 7 days @ 25°C & 50% R.H.

# **SAFETY PRECAUTIONS**

ARDEX WPM 501 is hazardous; non-dangerous goods. It is harmful by inhalation, in contact with skin and if swallowed. It is irritating to eyes and skin and may cause sensitization by skin contact. Keep containers tightly closed and in a well ventilated place. Avoid contact with skin and eyes. Use suitable protective clothing.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

# DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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