



# easypoxy ag

## Epoxy Adhesive and Grout for Walls & Floors

### DESCRIPTION

High strength epoxy adhesive and grout suitable for fixing and grouting wall and floor tiles.

#### Use as an adhesive for

- Fixing wall and floor tiles; ceramics, porcelain and fully vitrified tiles, mosaics, and glass or translucent tiles including glass mosaics (when using BAL Easypoxy AG White). Please check suitability for use with natural stone tiles or slabs. May also be used to fix approved thin slate.
- Suitable for use with approved resin backed stone tiles.
- Ideal for use in wet areas, including swimming pools. For interior and exterior environments where high levels of adhesion and/or chemical resistance are required.

#### Use as an grout for

- Grouting wall and floor tiles; ceramics, porcelain and fully vitrified tiles, mosaics, in dry or wet interior and exterior environments that are subject to chemical attack, or where a hygienic, durable, abrasion-resistant, waterproof finish is required.
- For joint widths from 2-12mm.
- Whilst BAL Easypoxy AG is not recommended for direct food contact, its use is recommended for food preparation areas where a hygienic, easily cleaned surface is required. BAL Easypoxy AG is recommended for; domestic kitchens and worktops, breweries, abattoirs, dairies, swimming and hydro therapy pools, bathrooms, showers and power showers, hospital and industrial/chemical plants

#### Restrictions: NOT suitable for

Metal decor/lustre etc. Testing should be conducted to determine suitability for soft glazes or highly polished ceramic or stone tiles etc.  
Direct food contact.

### PRODUCT INFORMATION

**Composition:** Epoxy resin paste + epoxy hardener/filler damp powder.

**Colours:** White

**Type/Classification:** Exceeds BS EN 12004 R2 (as an adhesive). Exceeds BS EN 13888 RG (as a grout).

**Pack sizes:** 5kg

**Key features:** Chemical-resistant. Solvent free. Waterproof. Durable and abrasion-resistant. Excellent set at 24hr with full cure at 7 days.

### USAGE & SERVICE CONDITIONS

|                                     |   |                              |   |
|-------------------------------------|---|------------------------------|---|
| Walls                               | ✓ | Floors                       | ✓ |
| Interior                            | ✓ | Exterior                     | ✓ |
| Dry                                 | ✓ | Wet                          | ✓ |
| Worktops                            | ✓ | Showers                      | ✓ |
| Swimming Pools (1)                  | ✓ | Heated Screeds               | ✓ |
| Hydrotherapy Pools (1)              | ✓ | Limited Movement / Vibration | ✓ |
| Hygienic / Sterile Areas            | ✓ | Chemical Resistance          | ✓ |
| Showers Including Power Showers (2) | ✓ |                              |   |

(1) Do not fill pool for at least 3 weeks following completion of grouting – BS 3285 Part 4:2009. Clause 7.2.10

(2) Do not use shower for at least 2 weeks after completion of grouting – BS 5385 Part 4: 2009, clauses 7.2.1

### APPLICATION AREAS

|   |   |
|---|---|
| Bakeries/Breweries                            | ✓ |
| Cafes/Pubs/Restaurants                        | ✓ |
| Chemical Plants                               | ✓ |
| Changing Rooms (Spas, Jacuzzis)               | ✓ |
| Dairies/Food/Drink Processing Plants          | ✓ |
| Kitchens Commercial/Domestic                  | ✓ |
| Hospitals/Medical/Dental/Veterinary Surgeries | ✓ |
| Abattoirs                                     | ✓ |
| Industrial Plant Rooms                        | ✓ |
| Shopping Malls/Supermarkets                   | ✓ |
| Sports/Leisure Centre                         | ✓ |

## MIX/USAGE DATA

| Pot Life   | Initial cure | Specific Gravity |
|------------|--------------|------------------|
| 35 minutes | 24 hours     | 1.47             |

## COVERAGE as a grout

| Tile Size   | Joint Width | Typical Coverage         |
|-------------|-------------|--------------------------|
| 150x150x6mm | 2mm         | 4.2m <sup>2</sup> per kg |
| 300x300x9mm | 3mm         | 3.8m <sup>2</sup> per kg |

## COVERAGE as an adhesive

Typical coverage is 1.4kg to 1.5kg of adhesive per m<sup>2</sup> per mm thickness.

Using a BAL Mosaic trowel, a 5kg unit of BAL EASYPOXY AG will typically cover 3.3m<sup>2</sup>

^ May vary dependent on nature and flatness of surface, and on trowel used.

## TEMPERATURE RESISTANCE\*\*

-20°C to 60°C prolonged  
Up to 100°C intermittent

\*\* Cured adhesive.

## SURFACE PREPARATION

### General as an adhesive

Before fixing wall and floor tiles, ensure that:

1. Surfaces to be tiled are flat, clean, dry, sound and free from contamination.  
If fixing onto plaster/plasterboard, check that tile weight (INCLUDING adhesive) will NOT exceed 20kg/m<sup>2</sup> (plaster) or 32kg/m<sup>2</sup> (plasterboard).

### MIXING

1. Stir the resin thoroughly before use.
2. Empty the hardener/filler into the mixing container. Add approximately half of the resin and mix slowly and thoroughly.
3. Add the remaining resin. Mix slowly and thoroughly to a uniform colour and a smooth, lump-free mix. Avoid entraining air by mixing at too high speed or by over-mixing. Note: If using electric drill mixer, blend at slow speed (i.e. under 300rpm).
4. Transfer some of the mixed product to the resin container to scrape out any residue before transferring back to the mixing container and re-mixing (removal of epoxy resin residue will ensure that the resin container may be disposed of as non-hazardous waste).

Mixed epoxy adhesive/grout working time at 20°C: approximately 35 minutes. Note that working time will be reduced at higher temperatures and extended at lower temperatures. Apply at temperatures above 10°C.

## APPLICATION

### Adhesive procedure

Depending on substrate and tile type, apply using a suitable wall or floor tiling trowel.

1. Apply adhesive to wall or floor surface and comb out.
2. Press tile firmly into the ribs of the adhesive and into position, with slight twisting/sliding action to ensure optimum adhesive contact.
3. Fix tiles before adhesive forms a skin, typically 15 minutes at 20°C (this is reduced at higher temperature and extended at lower temperatures). At high temperatures it is recommended that the mortar is spread out immediately after mixing as self-heating in the container will reduce the working time. If adhesive is no longer wet, remove adhesive and apply fresh layer. When fixing thin slate, ensure that all the slate remains in contact with the adhesive bed until the adhesive has cured. When required, use mechanical support to ensure contact and acceptable coverage. The thin slate used should be stored flat before fixing to ensure that no warping has occurred.
4. Remove any excess adhesive residue from tile surface as work proceeds.
5. Occasionally lift a tile to check adhesive contact area.
6. For certain tile types in wall applications a batten may be required.
7. Suitable for grouting after 24 hours.

### General as a grout

Before grouting, ensure that:

1. Installed tiles are appropriate for the service conditions of the environment – and fixed on the appropriate bed of adhesive.
2. The tile adhesive has fully set, as indicated on adhesive packaging.
3. Open joints are protected from contamination and are clean, dry and free from loose debris.

IMPORTANT NOTE: Ensure adequate ventilation – and do NOT use in temperatures below 10°C or in damp conditions.

*If grouting externally*, provide protection against inclement weather during grouting and for as long as possible afterwards.

*If grouting adjacent to food preparation areas*, ensure physical segregation of work area before grouting.

## APPLICATION

### Grouting procedure

1. Check potential staining risk: apply grout to a few tiles in small trial area. If discolouration occurs or difficulties are encountered with cleaning off (surplus grout), apply BAL PROTECTIVE SEALER – and repeat trial.
2. Certain types of tiles may be prone to scratching. If in doubt, carry out small trial application in an inconspicuous area. If scratching occurs, please consult BS 5385 and/or the tile manufacturer for further advice.
3. Work in small areas with a Hard Rubber Epoxy Grout Float. Completely fill tile joints with mixed grout and compact well, removing excess grout from tile surface as work proceeds.
4. Clean off surplus grout after approximately 50 minutes at 20°C using an emulsifying pad and gripper with clean water (in warm conditions, clean off should be undertaken sooner).
5. Using a sponge, remove the emulsified epoxy/water residue, cleaning diagonally to grout lines.
6. Clean any remaining light haze from the surface next day, using water and an emulsifying pad and gripper. BAL Microshield Tile Cleaner is very effective in removing epoxy haze after 24 hours.

NOTE: Do not allow haze to remain on tile surfaces for more than 24 hours.

NOTE: *If completing a swimming pool*, do NOT fill pool for at least 3 weeks after grouting (contact BAL Technical Advisory Service for further advice).

*If completing a shower*, do NOT use shower for at least 2 weeks (as required by BS 2009 – Part 4, Clause 7.2.1).

Protection (food preparation/storage areas): Tiles/mosaics to be kept dry and not brought into service until the epoxy grout has cured and is hard. Not recommended for grouting tiles with soft-glazed wall tiles or tiles with metal decor or lustre.

NOTE: As for all epoxy grouts, BAL Easyoxy AG may yellow on exposure to sunlight or UV light or strong heat. Where strong exposure is anticipated, consider the use of BAL Easyoxy AG Grey.

Spillages of e.g. coffee and fruit juices may stain the surface of the grout if not cleaned immediately.

## CLEANING

Always use cleaning products suited to tile type.

For best long-term antibacterial protection, regular cleaning with BAL MICROSHIELD TILE CLEANER is strongly recommended.

## HEALTH & SAFETY INFORMATION / GOOD PRACTICE ADVICE

For detailed information and safety guidance, please refer to Material Safety Data Sheet [MSDS] of each component.

### TECHNICAL ADVISORY SERVICE

For free expert guidance on use of this product, or any aspect of tiling, contact the BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE on Tel: 01782 591120 or 0845 600 1 222 or Fax: 01782 591121.

### POWERSPEC

A unique computerised online specification system for the design and installation of ceramic, mosaic and natural stone tiling.

Visit [www.powerspeconline.com](http://www.powerspeconline.com)

### SHELF LIFE

12 months under normal dry conditions. Protect from frost and damp.

### QUALITY AND ENVIRONMENTAL STANDARDS

Manufacturing quality assurance standards conform to BS EN ISO 9001. Satisfies the environmental management requirements and operational scope of ISO 14001.

### 25 YEAR GUARANTEE

All BAL products are supplied with a 25 year product guarantee to be free from manufacturing defects and to be fit for purpose. The guarantee covers materials replacement costs and labour.

This guarantee is subject to use of product in accordance with BAL's instructions and technical data, and good working practice. No liability can be accepted for any loss or damage arising from incorrect use of products or poor workmanship, over which BAL has no control. 10 year anti-fungal guarantee subject to regular cleaning.

Contact BAL Marketing Department for full details.

### CONDITIONS OF SALE

Sold subject to the Company's Conditions of Sale. Available on request.

For sales and technical queries, contact:

#### BUILDING ADHESIVES LTD

Longton Road, Trentham, Stoke-on-Trent, ST4 8JB, England  
[www.bal-adhesives.com](http://www.bal-adhesives.com)

| Chemical                 | Resistance | Chemical   | Resistance |
|--------------------------|------------|--|------------|
| Acetic Acid (5%)         | *          | Kerosene   | **         |
| Acetone                  | *          | Lactic Acid (3%)                                       | *          |
| Acetyl Bromide           | **         | Lime Juice   | **         |
| Aluminium Bromide        | **         | Linseed Oil  | **         |
| Aluminium Fluoride       | **         | Lubricating Oils                                       | **         |
| Ammonium Bromide (5%)    | *          | Methanol   | *          |
| Baking Soda              | ***        | Milk   | **         |
| Barium Hydroxide         | ***        | n-Butanol  | **         |
| Beer                     | **         | Nitrates   | **         |
| Benzene                  | *          | Nitric Acid (10%)                                      | **         |
| Boric Acid               | **         | Oleic acid   | **         |
| Butyl Acetate            | **         | Olive Oil  | **         |
| Calcium Chloride         | ***        | Palm Kernel Oil  | **         |
| Calcium Hydroxide        | ***        | Palm Oil   | **         |
| Carbon Disulphide        | *          | Paraffin Wax   | ***        |
| Carbon Tetrachloride     | **         | Petroleum Products                                     | **         |
| Carbonates               | ***        | Phosphoric Acid (10%)                                  | *          |
| Carbonic Acid            | **         | Pine Oil   | **         |
| Castor Oil               | **         | Polypropylene Glycol                                   | ***        |
| Chlorides                | **         | Potassium Hydroxide                                    | **         |
| Chlorinated Paraffin     | **         | Proprietary Sterilising Agents                         | **         |
| Citric Acid              | **         | Silicates  | **         |
| Coconut Oil              | **         | Sodium Carbonate                                       | ***        |
| Cotton Seed Oil          | **         | Sodium Chloride  | ***        |
| Diesel Oil               | **         | Sodium Hydroxide                                       | **         |
| Dilute Detergents        | ***        | Sodium Hypo chlorite Solution (15% available chlorine) | ***        |
| Ethanol                  | *          | Soya Bean Oil  | **         |
| Ethylene Glycol          | ***        | Sugars   | **         |
| Fats                     | **         | Sulphates  | **         |
| Ferric Chloride          | **         | Sulphuric Acid (45%)                                   | *          |
| Fish oil                 | **         | Sunflower Seed Oil                                     | **         |
| Fluorides (except HF)    | **         | 1,1,1- Trichloroethane                                 | **         |
| Gasoline                 | **         | Tannic Acid  | **         |
| Ground Nut Oil           | **         | Tetrahydronaphthalein                                  | **         |
| Heptanes                 | ***        | Vegetable Oils   | **         |
| Household Ammonia        | **         | Water  | ***        |
| Hydrobromic Acid         | *          | White Spirit   | **         |
| Hydrochloric Acids (dil) | **         |  |            |

\* splash contact only

\*\*contact for max 24hr before washing off

\*\*\*prolonged contact