

## Technical Datasheet

# IZOZEN® FLEXPPO BITUPROOF 320

## Water Based Elastomeric High Build Latex Rubberised Bitumen Coating

### Description

IZOZEN® FLEXPPO BITUPROOF 320 is a dark brown emulsified bitumen liquid reinforced with latex rubber, formulated from selected raw materials to form a high build elastomeric waterproof and protective coating for concrete and masonry with the following advantages:

- Elastomeric will bridge minor cracks which may occur in concrete substrates.
- Resists attack by chloride and sulphate ions present in ground water.
- Single component.
- Easily applied by brush, roller, broom or squeegee.
- Economical.
- Solvent free, non flammable.
- Asbestos free.
- Rot resistant.
- Simple and low-cost application.

### Fields of application

It is used for waterproofing of:

- Retaining walls.
- Shaded or tiled roofs.
- Underground concrete foundations.
- Wet floor areas such as bathrooms and kitchens.
- Where minor live cracks may occur in concrete substrates, IZOZEN® FLEXPPO BITUPROOF 320 will bridge such minor cracks.
- Basement walls.
- Concrete slabs.
- Suitable for use as curing compound for fresh concrete.
- IZOZEN® FLEXPPO BITUPROOF 320 can be used as protective coating for normal and galvanized steel plates.

### Technical data

|                             |                    |
|-----------------------------|--------------------|
| Form:                       | Liquid             |
| Colors:                     | Dark Brown         |
| Dry time:                   | 3 - 5 hr           |
| Application temperature:    | from +5°C to +45°C |
| Tear strength:<br>ASTM D624 | > 1.5 kN/m         |
| Density                     | 1.00 ± 0.02 g/cm³  |
| Solid Content:              | ≥ 50%              |

### Directions for use

#### 1. Substrate preparation

- The substrate must be clean, free of oil or grease, loose material, dust, etc.
- Water leaks should be plugged with IZOZEN® FLEXPPO FASTFIX-100, ultra rapid-setting, cementitious leak-plugging mortar.
- Any cavities on concrete surface should be filled and smoothed out with IZOZEN® FLEXPPO DUROCRETE / DUROCRETE-F or a cement mortar improved with IZOZEN® FLEXPPO LATEX, after all loose aggregate has been removed and the surface has been well dampened.
- Starter bars and spacers should be cut to a depth of about 3 cm into concrete and holes should be filled, as described above.
- Existing construction joints are opened longwise in a V shape to a depth of about 3 cm and are subsequently filled, as above.
- Corners, like wall-floor junctions, should be filled and smoothly rounded with IZOZEN® FLEXPPO DUROCRET / DUROCRETE-F or a cement mortar improved with IZOZEN® FLEXPPO LATEX (formation of a fillet, triangular in cross section, with sides of 5-6 cm).
- In case of masonry walls, joints should be first filled carefully, otherwise it is recommended to apply a cement mortar layer first improved with IZOZEN® FLEXPPO LATEX.
- For waterproofing basements in old buildings, the existing plaster should be removed to a height of at least 50 cm above water level, before proceeding as above.
- Wherever flat surface formation is required (smoothing, slope creation, etc.) the use of IZOZEN® FLEXPPO DUROCRET / DUROCRETE-F or a mortar improved with IZOZEN® FLEXPPO LATEX is recommended.

#### 2. Application

It is recommended that two coats of IZOZEN® FLEXPPO BITUPROOF 320 be applied. The second coat should be applied at a right angle to the first coat.

Allow a minimum of 3 hours between the coats so that each coat is allowed to dry before applying the next coat.

|                                    |                            |
|------------------------------------|----------------------------|
| Tensile strength:<br>ASTM D412     | ≥ 0.15 Mpa                 |
| Bond strength:<br>ASTM D4541       | ≥ 1.0 Mpa                  |
| Resistance to heat:<br>ASTM D2939  | Pass                       |
| Freezing resistance:<br>ASTM D2939 | Pass                       |
| permeance: ASTM<br>D3747           | ≤ 2 ng/Pa.s.m <sup>2</sup> |
| VOC:                               | < 40 g/ltr                 |

#### Shelf life – Storage

12 months from production date if stored in original, unopened packaging.

#### Remarks

- As with all bituminous products, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection. Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.
- Consult the directions for safe use and precautions written on the packaging before use.

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IZOZEN® FLEXPPO BITUPROOF 320 may be applied by brush, roller, broom or squeegee.

*Note: Surfaces coated with IZOZEN® FLEXPPO BITUPROOF 320 should not be exposed to rainwater or ponding water for a minimum of 72 hours after application.*

#### Primer Coat:

There is generally no need for primer coat. Dusty surfaces should be primed with a coat of IZOZEN® FLEXPPO BITUPROOF 320, diluted with an equal quantity of cool, clean water and allowed to dry.

#### Consumption

Consumption rate depends on surface roughness and the method of application.

- 3 - 5 m<sup>2</sup>/litre per coat, as protective coating.
- 1 - 1.5 m<sup>2</sup>/litre per coat, as water proof coating giving a dry film thickness of 500 microns per coat. Two coats recommended.

#### Packaging

18Kg, 20 Kg, 200 Kg

#### IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.

