

Technical Datasheet

IZOZEN® FLEXPPO DURACRETE

MULTI-PURPOSE, ECONOMICAL, PATCHING AND REPAIR MORTAR

Description

IZOZEN® FLEXPPO DURACRETE is a cementitious, silica fume and polymer containing, one-component repair mortar.

Following are the CHARACTERISTICS / ADVANTAGES of IZOZEN® FLEXPPO DURACRETE

- Easy to mix, apply and finish
- Good adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Low water absorption, but vapour permeable
- Non-corrosive
- Excellent chloride and carbonation resistance

Suitable for use in hot and tropical climatic conditions

Fields of application

IZOZEN® FLEXPPO DURACRETE can be used for cosmetic or structural repair of deteriorated concrete and mortar on exterior or interior, horizontal and vertical applications.

Technical data

Form:	Polymer containing cementitious mortar with different additives
Colors:	Grey Powder
Yield:	~14.1 L per 25 kg bag
Total Chloride Ion Content:	Nil
Layer Thickness:	Min. 5 mm per layer Max. 30 mm per layer
Ambient Air Temperature:	+5 °C min. / +40 °C max
Compressive Strength:	≥ 35 N/mm ² (w/p = 0.16)
Tensile Adhesion Strength:	≥ 1.5 N/mm ²
Substrate Temperature:	+5 °C min. / +40 °C max.
Fresh Mortar Density:	~2.05 kg/l (25 °C)
Maximum Grain Size:	~1.5 mm
Mixing Ratio:	16% - 17%

Directions for use

PRE-TREATMENT

- 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.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blast cleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

BONDING AGENT

The application of a suitable bonding agent, such as IZOZEN® IZOBOND EP will improve adhesion on large areas or where particularly dense concrete substrates are involved.

MIXING

Mix 25 kg bag with the necessary, above mentioned, amount of cold water, using an electric blender with a suitable mixing spiral, in a clean bucket. Add the IZOZEN® FLEXPPO DURACRETE powder slowly while mixing continuously for at least 3 minutes and until a homogeneous consistency is achieved. Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product. The obtained mix results very creamy, easily spreadable and thixotropic.

APPLICATION

Apply IZOZEN® FLEXPPO DURACRETE while the bonding agent is still wet. The mortar can be applied by spatula or trowel. For any thickness more than 30 mm, IZOZEN® FLEXPPO DURACRETE must be applied in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float. For fine surface finish IZOZEN® FLEXPPO DURACRETE F or IZOZEN® FLEXPPO STUCCO can be applied over the IZOZEN® FLEXPPO DURACRETE.

Flash Point: None
Pot Life: ~45 min (25 °C)

Shelf life – Storage

06 months from date of production if stored properly
Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.

Remarks

Do not over work the finished surface as this will produce a cement rich surface texture, which may cause the formation of random (crazing) cracking in the surface. Over work of the finished surface could also disturb the mortar bond on the concrete substrate.

- Temperature during application should be between +5°C and +35°C.
- Due to cement content, IZOZEN® FLEXPUR DURACRETE reacts with water forming alkaline solutions, thus is classified as irritant.
- Consult the directions for safe use and precautions written on the packaging before use

CURING TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or application of a suitable curing compound like IZOZEN® IZOCURE is recommended. Do not commence fogging until final set has been reached.

Packaging

10 Kg, 20Kg, 25 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.

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 2025