

THORO[®] FLEXIJOINT

Elastomeric Mortar for Sealing Movement Joints and Cracks in Concrete or Masonry Subject to Damp or Immersed Conditions

Description of Product

THORO[®] FLEXIJOINT is an elastomeric mortar with a movement accommodation of up to 15% for sealing joints and cracks in concrete or masonry subject to damp or immersed conditions. It is a two component material which may be applied by trowel or caulking gun and dries to a grey colour.

THORO[®] FLEXIJOINT cures to form a grey elastomeric mortar.

Fields of Application

THORO[®] FLEXIJOINT can be used in the following applications:

- To seal construction joints, with a movement accommodation of up to 15% of the joint width, and cracks in concrete in, for example, water reservoirs, water treatment plants, swimming pools etc.
- To seal joints and cracks before waterproofing with THOROSEAL[®] FX100
- For jointing between concrete precast panels or pipe sections
- As a pointing mortar when flexibility is required

Features and Benefits

- Excellent bond to damp surfaces
- Good elastomeric properties
- Suitable for immersion in water
- Resistant to aggressive ground water, dilute acids and alkalis
- Impact resistant
- Two pre-batched components; easy to mix
- Quick application with a barrel caulking gun
- Can be applied in damp conditions to damp surfaces
- Cement-based, solvent free

Typical Properties/ Technical Data ^(a)

| | |
|-------------------------------------|------------|
| Aggregate size (max) mm | 0.63 |
| Wet density, kg/m ³ | 1300 |
| Elongation at break (max), % | 60 |
| Movement accommodation, % | ±15 |
| Operating temperature, °C | -20 to +50 |
| Tensile strength, N/mm ² | 0.45 |
| Shore A hardness | 35 |
| Curing rate at 20°C, mm | |
| 1 day | 2 |
| 3 weeks | 8 |
| 6 weeks | 15 |

^(a) Typical value at 20°C

Application Procedure

For application against flowing water, leaks must be plugged with THORO[®] WATERPLUG.

The joint to be sealed must be clean, free of oil, grease, paints, dust or any other contaminants that may adversely affect adhesion.

For optimal results, cut out the joint to a width and depth as indicated. The joint depth should be controlled with a foam backing rod. Where no backing rod is required, a bond breaker tape should be used to prevent adhesion to the back of the joint. During application, the substrate must be damp but without free water.



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Mixing

Add the Part 1 powder component to the Part 2 liquid component whilst stirring with a suitable mixing paddle in a slow speed (400–600rpm) drill. Mix until a lump-free consistency is obtained and allow to stand for 5 minutes before re-mixing for a further 10 seconds. It is advisable to mix full units only. If part mixing ensure that both parts are thoroughly pre-mixed and accurately portioned.

Do not overmix or add water.

The mixed material must be used within its pot life of 60 minutes (at 20°C).

Application

Do not apply THORO® FLEXIJOINT to frozen substrates or if the ambient temperature is below 5°C or is expected to fall below 5°C within 24 hours.

To achieve good adhesion, a primer coat of the Part 2 component should be applied by brush to the joint edges. Whilst the primer coat is still wet, apply THORO® FLEXIJOINT into the joint with a barrel caulking gun or putty knife. Overfill the joint by 10% to compensate for shrinkage during curing.

If a smooth appearance is required, finish immediately after application with a suitable tool kept wet with a dilute detergent solution.

Curing

At high temperatures, low humidity, or during windy weather, it is advisable to protect THORO® FLEXIJOINT from rapid drying out. Protect against frost until cured.

Allow to cure for at least 3 days before applying THOROSEAL® FX100 or other compatible coatings if required.

Allow 7 days curing before immersion in any liquid.

Low temperatures and high humidity will extend the curing time required.

Coverage

The following chart shows the approximate coverage in linear metres, of a 10kg unit on joints of different dimensions.

| Joint Depth, mm | Joint Width, mm | | | | |
|-----------------|-----------------|----|----|----|----|
| | 10 | 15 | 20 | 25 | 30 |
| 5 | 154 | | | | |
| 7.5 | | 68 | | | |
| 10 | | | 39 | | |
| 12.5 | | | | 25 | |
| 15 | | | | | 17 |

Packaging

Part 1: 5kg metal can

Part 2: 5litre plastic can

Storage

THORO® FLEXI JOINT should be stored under cover and clear of the ground. Protect the materials from all sources of moisture and frost.

Shelf Life

Rotate stock in order not to exceed the shelf life of 12 months.

BASF Construction Chemicals (UK) Ltd
PO Box 4
Earl Road
Cheadle Hulme
Cheadle
Cheshire
SK8 6QG
Tel: +44 (0) 161 485 6222
Fax +44 (0) 161 488 5220
www.basf-cc.co.uk



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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes, which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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