

THORO[®] FLEXI-JOINT

An elastomeric mortar for sealing moving joints and cracks in concrete or masonry

Description of Product

THORO FLEXI-JOINT is a two component product. Part 1 is a blend of Portland cement, selected fine sands and additives. Part 2 is an emulsion of acrylic resins. When mixed, the components form a mortar which can be applied with a pointing gun or trowel. THORO FLEXI-JOINT cures to form an elastomeric mortar.

Uses

To seal all kind of moving construction joints, cracks in concrete and masonry e.g. in water reservoirs, water treatment plants, swimming pools etc. Movement accommodation $\pm 15\%$ To seal joints and cracks before waterproofing with THOROSEAL FX 100 Jointing between concrete precast panels or pipe sections.

As a pointing mortar when flexibility is required.

Benefits

Durable:

- Excellent bond to damp surfaces
- Good elastomeric properties
- Suitable for water immersion

Easy to apply:

- Easy to mix : 2 pre-batched components
- Quick application with a pointing gun
- Can be applied on damp substrates

Environmentally friendly

- Cement based, no solvent

Product Data

Typical physical properties (a)

Aggregate size (max.)	0.63 mm
Elongation at break (max.)	60%
Movement Accommodation	+/- 15%
Tensile strength	0.45 M/mm ²
Shore A hardness	35

(a) Typical values; all tests were carried out under temperature controlled conditions of 21°C

Colours

Standard: White and grey

Coverage

Suggested joint dimensions and consumption of Flexi-joint

Joint width in mm	10	15	20	25	30
Flexi-Joint depth in mm	5	7.5	10	12.5	15
Yield* m/10 kg** Flexi-joint	139	62	35	22	15

* 10 % volume shrinkage calculated

** 10 kg THORO FLEXI-JOINT consists of 1 unit (part 1 part 2)

Packaging

THOROFLEXI –JOINT Part 1 : 5 kg metal can

THOROFLEXI –JOINT Part 2 : 5 litre plastic can

Storage

THORO FLEXI-JOINT should be stored under cover and clear of the ground. Protect against moisture and frost. Rotate stock in order not to exceed the shelf life of 12 months (part 1 and 2)

Application

Substrate preparation

Active leaks must be sealed with WATERPLUG. The joint 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 equal to twice the THORO FLEXI-JOINT depth.

When the joint is more than 15 mm deep, back-filling material shall be installed,. When less than 15 mm bond breaker (siliconised) tape or backing rods shall be used to prevent adhesion to the back of the joint.

In all cases three sided contact shall be avoided.

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Mixing**Potlife****60 min. (20°C)****Wet density****1.30 kg/dm³**

Properly stir the liquid component prior to mixing for optimum homogenisation.

Add part 1 powder component to part 2 liquid component.. Mix until a lump-free consistency is obtained and allow to stand for 5 minutes before re-mixing for a further 10 seconds.

DO NOT OVERMIX or add water.

Application

Do not apply THORO FLEXI-JOINT to frozen substrates or when the temperature is below 5oC or is expected to fall below 5oC within 24 hours.

In order to achieve good adhesion, a primer-coat of Part 2 should be applied by brush to the joint edges. Remove all free standing water before application of the primer. Whilst the primer coat is still wet, apply THORO FLEXI-JOINT in the joint with a pointing gun or with a putty knife.

The pointing gun can be charged by using a plastic bag. Fill the bag with the mixed THORO FLEXI-JOINT, cut off one corner of the bag, and squeeze the mixed THORO FLEXI-JOINT into the pointing gun.

Overfill the joint by 10% to compensate for shrinkage during curing. Finish immediately after application with a soapy solution to give a smooth appearance if required

Curing

FLEXI-JOINT depth 2 mm ± 1 day
8 mm ± 3 weeks
15 mm ± 6 weeks

Curing time depends on the applied thickness of THORO FLEXI-JOINT and environmental circumstances. Allow to cure for at least 3 days before applying THOROSEAL FX 100 or THOROLASTIC.

Allow 7 days curing before immersion in water.

Clean up and spillages

Not hardened material can be removed with water THORO FLEXI-JOINT.

Health and Safety

THORO FLEXI-JOINT Part 1 is cement based and may be irritating to the skin and eyes. Gloves and eye protection should be worn. The use of dust masks is recommended. THORO FLEXI-JOINT Part 2 is non toxic, but should not be ingested as it is based on acrylic polymers. Accidental splashes of the material to the skin or eyes should be immediately washed off with clean water. In the event of prolonged irritation, seek medical advice. In the case of ingestion give water or milk to drink and treat symptomatically. Medical advice should be sought.

A Material Safety Data Sheet for this product is available on request.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality Statement

All products manufactured by BASF Egypt, or imported from BASF affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2000, ISO 14001:2004 & OHSAS 18001:1999 standards.

12/07 BASF-EG

* Properties listed are only for guidance and are not a guarantee of performance.

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