
NURASWELL TECHNICAL DATA SHEET

Application Fields

Nuraswell is a water swellable waterstop used for waterproofing of construction joints. Typical application fields besides others are as follows:

- Waterproofing of construction joints between different concrete pours
- Waterproofing of saw cut joints
- Waterproofing of pipe penetrations
- Waterproofing of the wall-slab joint

Properties

Nuraswell is a waterstop that swells under contact with water. It is applied on the previous concrete pour into the centre of the construction or expansion joint.

Nuraswell is nailed to the concrete.

- 1000% swelling capacity, fully reversible for an unlimited number of cycles
- Dimensionally stable, no wash out, like with Bentonite waterstops
- Retarded swelling, volume increase starts several hours after water contact
- Swelling pressure of >5 bar, extreme resistance against hydrostatic pressure
- Resists 50m water pressure acc. To EN12390-8

Application

1. Substrate Preparation

Nuraswell is suitable for reinforced joints in concrete bodies.

Remove separating and bond breaking substances from first the concrete section (for example – foundation or slab). Surfaces should be open porous and load bearing. Minimal strength requirement is 15Mpa. Patch larger surface defects with Nurapatch.

2. Processing

Due to its enormous swelling pressure Nuraswell must be installed a minimum of 50mm from each edge. **NO NOT** use Nuraswell on concrete walls of less than 120mm in cross section or on concrete block construction.

Fix with nails: Nuraswell can be nailed to the first concrete section. Shoot nails at 150mm spacings through the Nuraswell into the concrete.

Cut overlaps, crossings or terminations of the waterstop in a 45° angle and connect without a gap. Hollow areas of more than 4mm may reduce water tightness significantly.

Plastic pipes can only be treated with Nuraswell up to DN 50 with cold water and up to DN 25 for more than 30°C water temperature. Due to the high swelling pressure plastic pipes may collapse under load. Larger diameters are only permitted with metal pipes.

3. Curing

Nuraswell does not require curing. Avoid standing water on the waterstop as this may result in premature swelling of the material. Because of the retarded swelling a short term contact with rain water is a problem.

Estimating

The required amount is calculated with the planned length of the joint waterproofing.

Cleaning

Nuraswell does not cause any dirt. Dirty material can be cleaned with a moist cloth. **DO NOT** install material that has already swollen. Wait until the material has completely dried and achieved its original dimensions.

Technical Specifications

- Colour: Blue
- Dimensions: 5 x 25mm
- Weight: 0.12kg/m
- Substrate temperature: 5 - 35°C
- Water impermeability acc. EN12390-8:
 - Positive side: 5 bar
- Water absorption: 1.2kg/m
- Maximum swelling
 - Potable water 1060%
 - Sea water 750%
 - Saline water 580%

Packaging

Nuraswell is supplied in rolls of 50m. 4 rolls are packaged in a box (approx. 24kg).

Storage

Nuraswell can be stored in unopened original packs for 5 years at 5 - 35°C in a dry storage place protected against sunlight.

Safety

Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product.

Transport Classification

N/A

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