

NEXSEAL PLUG
FAST SETTING MORTAR USED TO STOP FLOWING WATER
Technical Data Sheet

DESCRIPTION

Nexseal Plug is a fast setting grout that, when mixed to a stiff-dough consistency with water, may be used to immediately arrest the seepage of flow of water through concrete voids.

Nexseal Plug is used to stop flowing water, allowing waterproofing repair to be installed in leaking cracks, holes, joints or any place where water is penetrating a concrete structure.

FEATURES & KEY BENEFITS

- Stops flowing water immediately
- Sets fast, in one to two minutes
- Easy to mix and apply
- Will set up and harden under water
- Has exceptional strength
- Does not contain any chlorides
- Safe for drinking water applications
- Can stop extreme leaks
- Works where all other products fail
- Last as long as the structure to which it is applied
- Exceptional durability
- Non-shrink, non-metallic

TYPICAL APPLICATIONS

- Foundations
- Basement
- Tunnels
- Pipes
- Maritime projects
- Submarine works
- Elevator pits
- Concrete walls
- Concrete slabs
- Construction joints
- Marine structures
- Swimming pools
- Water treatment plants
- Channels
- Potable water tanks
- Parking structures

COVERAGE

- 1 kg of Nexseal Plug fills about half a liter of cavity
- 1 kg/lm used as part of the repair system

The coverages are theoretical and depend on other conditions.

STORAGE

Nexseal Plug should be stored at room temperature (min 5°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 2 years can be expected

APPLICATION GUIDELINES

The crack or hole to be treated should be cut away to a minimum depth of 30 mm and width of 25 mm by undercutting or square cutting (not by v cut). The concrete in which the repair is to be made must be physically sound and in good condition. Flush away all cuttings and dirt to form a clean washed surface.

Mix **Nexseal Plug** with clean water only. Add approximately 3.5 parts powder to 1 part clean water by volume, just enough water to form a putty consistency.

Do not use more Nexseal Plug than can be placed in 1 minute, whilst allowing for only a 30 second mixing period. Place with minimum working or rubbing. Force Nexseal Plug into the crack or hole by pushing firmly; using maximum pressure. Keep damp for at least 15 minutes to help curing.

PACKAGING

Nexseal Plug is supplied in 20 kg pails

TECHNICAL DATA

Color	Dark gray
Appearance	Powder
Density	1.9 g/cm ³
Layer thickness	15 mm
Particle size	0-0.5 mm
Initial set time at 25°C	30 seconds
Compressive strength	37 MPa
Mix Ratio	3.5:1 (By volume)
Adhesion	1.7 MPa
Flexural strength	9 MPa

HEALTH & SAFETY

This product becomes caustic when mixed with water or perspiration.

Hazard statements

- H315 Causes skin irritation
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protective/face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.


For more information, please check the safety data sheet For this product.



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DISCLAIMER

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product, as no warranty is given or implied in connection with any recommendation or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous. Please check with your office to confirm that this is current issue: (May of 2019).

	
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<p>NEXSEAL PLUG Principle 3 Concrete restoration Method 3.1 Applying mortar by hand</p>	
<p>EN 1504-3 PRODUCTS FOR PROTECTION AND REPAIR OF CONCRETE STRUCTURES.</p>	
Essential characteristics	Performance
Compressive strength	Class R2 ≥ 25 MPa
Chloride content	Class R2 $\leq 0,05$ %
Adhesive bond	Class R2 ≥ 25 MPa
Restrained shrinkage / expansion (dimensional stability) where required. Not required if thermal cycling is carried out	NPD*
Carbonation resistance (For durability of corrosion, protection or inhibition) where relevant	NPD*
Elastic modulus, where relevant	NPD*
Thermal compatibility. Freeze/thaw cycles	Class R2 $\leq 0,8$ MPa
Skid resistance, where relevant	NPD*
Coefficient of thermal expansion (only for polymer concretes) where relevant	NPD*
Capillary Absorption	Class R2 ≥ 0.5 kg/(m ² x h ^{0,5})
Reaction to fire	Class A1
Dangerous substances	NPD*
NPD*. No Performance Determined	