

# NIVELAND 10R

**Fast drying cementitious self-levelling up to 10 mm thicknesses**



[BRAIN GREEN BUILDING COUNCIL]



## Description

NIVELAND 10R is a grey powder for internal use consisting of special cements with rapid hydration, with graded silica sand, resins and special additives. NIVELAND 10R can be used only indoor. NIVELAND 10R mixed with water becomes smooth, fluid and easy to apply with high bonding strength and fast-drying. It can be laid down up to 10 mm thicknesses onto cement subfloor, concrete, tiles, marble etc. NIVELAND 10R after drying has high compressive and flexural strength, no shrinkage, cracking or crazing. NIVELAND 10R is resistance to caster base chair. In accordance with European EN13813 it is classified CTC25-F6 A1fl. Also suitable for heated subfloors.

## Characteristics

Mixture ratio	single-component
Application	smooth trowel / scrubbing brush / long metal trowel
Application temperature	+10°C ÷ +25°C
Appearance	dust
Colour	grey
Dry residue	100%
Mixing ratio	1 bag of 25 kg with 5,5 / 6 L of water
Mixture duration	20' <sup>(1)</sup>
Initial setting time	20'-30' <sup>(1)</sup>
Hardening	24 h <sup>(1)</sup>
Thickness of each coat	1-10 mm
Coverage	1,5 kg/m <sup>2</sup> for 1 mm thickness
Walking on time	2-3 h <sup>(2)</sup>
Duration before gluing	24 h <sup>(2)</sup>
Resistance to compression	28 days: 25 N/mm <sup>2</sup>
Flexural strength	28 days: 6 N/mm <sup>2</sup>
Storage stability	6 months <sup>(3)</sup>
Packaging	25 kg
Tool cleaning	water (before the hardening of the mixture)
GISCODE	ZP1

- 1 at 20°C and 65% R.H.
- 2 depends on the suitable conditions of the yard: temperature, ventilation, absorption of the subfloor
- 3 in original sealed containers at temperatures between +10°C and +25°C

## Laying conditions

### Type of subfloor

Cement tiles, old ceramic floors, marbles, natural stones, smoothed cement.

### Subfloor's condition

It is essential to make sure that there is not a rising damp from the substrate. The substrate has to be solid, dry, free

of dust, loose parts, rust. Clean the subfloor to be treated by eliminating totally any trace of oil, grease, waxes and paint.

Weak subfloors must be treated with PRYMER W 30K (see technical data sheet).

Dusty or porous subfloors must be treated with PRYMER W (see technical data sheet) or CHIMIGRIP diluted with 50% of water (see technical data sheet).

Not-absorbent surfaces: clean with DILUENTE ACETONE or suitable detergent or dewaxer then apply one coat of CHIMIGRIP (see technical data sheet).

Cement subfloors with high residual humidity must be primed with PRYMER SF 1105 or PRYMER PUB 77 (see technical data sheets) then sprinkle Quarz on the surface.

Not-absorbent subfloors with high residual humidity must be treated with PRYMER EPOX WETT or PRYMER WB 328 S (see technical data sheets) then sprinkle Quarz on the surface.

Anhydrite subfloors must be treated with PRYMER W (see technical data sheet) before the application of NIVELAND 10R.

## How to use

### Mixture preparation

Mix a 25 kg bag of NIVELAND 10R as follows: pour the required amount of water indicated in the "Mixing ratio" in a clean container and add the powder gradually, mixing with a mechanical mixer at low speed, until a fluid homogeneous and lump-free mortar is obtained. Stir again briefly for 2-3 minutes: the mixture is then ready. If thickness over 10 mm has to be obtained with one hand, add 30% of little gravel (granulometry 0-4 mm up to 25 mm of thickness; granulometry 0-8 mm over 25 mm of thickness). The quantity of NIVELAND 10R mixed every time must be the one necessary to be used in about 20 min (temp. +20°C). Check the humidity content with a carbide hygrometer.

### Application of the mixture

Pour the mixture on the surface properly prepared: apply a strong pressing with the American trowel to improve the adhesion on the surface and to assess the thickness. Imperfections made by the trowel will be eliminated automatically due to the self-levelling properties of the product. When a second coat is needed wait after the complete drying and when the product is walkable (about 2-3 hours at 20°C).

### Materials that can be glued onto floors levelled up with NIVELAND 10R

Ceramics, natural stones, recomposed materials, wood (wood must be levelled with at least 4 mm thickness of product), textiles, rubber, PVC, linoleum (for a minimum thickness of 2-3 mm).

Allocations: for interior works of industrial, commercial and public floorings.

## Technical Datasheet

Item Code: RASO000X | Rev.: 12-09-2023 | Ver: 3.4

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### Warnings

- \* **Contraindications:**
- \* *do not add to the mixture: quicklime, cement, or plaster.*
- \* *Do not add more water to the mixture which has begun to work.*
- \* *Do not use for external works.*
- \* *Do not use with floors subject to constant transpiration of humidity.*
- \* *Do not use on floors subject to strong movements.*
- \* *Do not use NIVELAND 10R with temperatures below +5°C.*
- \* *Do not use on wet or frozen supports.*

### Label elements



· For more information about the safe use of the product it is recommended to consult the latest version of the Safety Data Sheet.

### Web link

Be sure to have the latest version of this technical data sheet downloadable also from the following link:

[http://www.chimiver.com/tds/EN\\_.pdf](http://www.chimiver.com/tds/EN_.pdf)

These information are given from the best of our knowledge and technical experience. They are of general character and not binding in any way our company. Every single case should be put to a practical test by the user who assumes the full responsibility of the final result of his work.