

Technical data sheet

GRAY HIGH-STRENGTH LEVELING SCREED / INTERIOR - EXTERIOR

Leveling and self-leveling mortars / 20 kg

**N**

NIVELANTES Y AUTONIVELANTES

**NIVELANTE RECRECIDO ALTA
RESISTENCIA GRIS**

Color: Gris

20 KG

CONTENIDO NETO

NIV-NRA-GRI-020

LOTE: _____ FECHA: _____



FT / FDS

MASCRO

mascro.com.mx

ARTE PRELIMINAR · SACO

PRELIMINARY DOCUMENTATION

Preliminary information. This is not a final data sheet or an authorized application instruction.

Commercial identity is adapted to MASCRO. Technical data and pending observations from the source document are retained.

Digital information and draft control

GRAY HIGH-STRENGTH LEVELING SCREED / INTERIOR - EXTERIOR

Agreed pack size: 20 kg · Color: Gray

SKU: NIV-NRA-GRI-020

Digital information and downloads

Scan to open the product page and view its PDFs and flipbooks.

<https://mascro.com.mx/productos/nivelante-recrecido-alta-resistencia-gris/>

Scope of this review

The content was checked against the artboards in the original first- and second-part files. Data carried over from other products were corrected and the commercial pack size was updated. The company name, address, telephone numbers, final formulation and performance validation remain subject to confirmation. The standards cited in the originals are retained for this review.



Characteristics and applications

TECHNICAL CHARACTERISTICS

Gray Leveling Screed is a ready-to-use, premixed cementitious mortar with normal setting and rapid drying, formulated with special hydraulic cements, controlled-grading aggregates and additives that ensure uniform hardening and high thermal conductivity ($\lambda = 2.0 \text{ W/mK}$). It produces controlled-shrinkage, high-strength screeds, allowing foot traffic after 12 hours and floor-covering installation in only 1 to 4 days. The formulation eliminates proportioning errors and ensures consistent quality, particularly where suitable aggregates are difficult to obtain. It meets UNE-EN 13813 classification CT-C30-F6-A1FL, providing dimensional stability, aging resistance and excellent thermal performance in underfloor heating systems.

APPLICATIONS

For bonded or floating screeds, indoors or outdoors, over new or existing substrates. Suitable for ceramic, natural stone, vinyl, linoleum, wood or carpet finishes where rapid return to service is required. Particularly recommended for underfloor heating, heavy-traffic areas, shops, warehouses, supermarkets and offices requiring short drying times. It can also be used for screed repairs or partial leveling without extra additives. Do not apply over rising damp or without a vapor barrier.

Procedure and identification

Substrate preparation: ensure the substrate is sound, clean and free of dust, oil, paint or gypsum. Where rising damp is present, install a vapor barrier. Bonded screeds (10 to 40 mm) require dry, rough substrates; floating screeds (35 to 60 mm) require a vapor-permeable separating layer, such as polyethylene or geotextile. Install isolation material (cardboard, polystyrene or cork) at perimeters and around columns to accommodate thermal movement.

Mix preparation: mix one 20 kg bag with 6.8% water using a planetary mixer, centrifugal mixer or automatic pressure pump. Do not change the water quantity, as this alters properties. Mix for 5 to 10 minutes to obtain a compact, semi-dry consistency without bleeding. Do not add water once setting has begun.

Application: spread with a shovel or trowel and compact firmly with a metal straightedge. Level using guides or screed rails and finish with a trowel or float. In areas containing services, reinforce with light metal mesh to prevent cracking.

Curing and times: at +23 °C and 50 % RH: • Foot traffic: 12 hours • Ceramic installation: 24 hours • Natural stone installation: 48 hours • Parquet or vinyl installation: 4 days. Protect from sunlight and wind for the first 24 hours.

Consumption: 18–20 kg/m² per cm of thickness. Storage: 12 months in a dry location protected from moisture. Pack size: 20 kg bags.

Property	Characteristic value
Consistency	Premixed flowable powder
Color	Light gray
Bulk density	1.850 kg/m ³
Solids content	100%

CT-C40-F10 (high-strength cementitious mortar,

ISO classification	rapid setting)
VOC emissions	0.0 g/L
Product shelf life	12 months in unopened packaging
Pack size	20 kg bags
Storage	Dry, ventilated location protected from direct sunlight

Technical data

Condition / Property	Value
Mixing ratio	100 parts powder with 6.8% water
Mix density	2.100 kg/m ³
Mix pH	12
Consistency	Semi-dry
Application temperature	+5 °C to +35 °C
Application thickness	10 – 60 mm
Working time	20 minutes
Initial set	≈ 3 hours
Initial curing	12 hours
Foot traffic	12 – 16 hours
Ready for floor covering	3 – 4 days
Compressive strength (1 day)	≥ 8 N/mm ²
Compressive strength (7 days)	≥ 22 N/mm ²
Compressive strength (28 days)	≥ 30 N/mm ²
Flexural strength (28 days)	≥ 10 N/mm ²
Substrate adhesion (28 days)	≥ 1.5 N/mm ²
Thermal conductivity (λ)	) ≥ 2.0 W/m·K
Linear shrinkage (28 days)	< 0.04 %
Service temperature range	-20 °C to +80 °C
Underfloor heating compatibility	Excellent
Alkali and sulfate resistance	High