

Technical data sheet

GRAY PRECISION ANCHORING GROUT / INTERIOR - EXTERIOR

Grouts / 20 kg

**G**

GROUTS

GROUT ANCLAJES PRECISOS GRIS

Color: Gris

20 KG

CONTENIDO NETO

GRT-GAP-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 PRECISION ANCHORING GROUT / INTERIOR - EXTERIOR

Agreed pack size: 20 kg · Color: Gray

SKU: GRT-GAP-GRI-020

Digital information and downloads

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

<https://mascro.com.mx/productos/grout-ancclajes-precisos-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

Mascro Gray Precision Anchoring Grout is a premixed, expansive, high-precision cementitious mortar for structural filling, anchoring and leveling machinery or metal elements. It contains high-strength hydraulic cements, selected aggregates and special additives that provide controlled expansion, excellent flow and high adhesion without segregation. Its elastic modulus and thermal expansion coefficient resemble structural concrete, with high compressive strength and minimal shrinkage. Suitable for precision work and moderate dynamic loads. It contains no chlorides, metal particles or aluminum. A corrosion inhibitor and silica fume improve durability against carbonation and chemical attack. It meets ASTM C1107 and CRD-C621 performance standards and may contribute LEED points in the low-emission materials category.

APPLICATIONS

For anchoring and fixing industrial machinery, steel structures, baseplates, bolts and precast concrete elements. Suitable for filling spaces between footings and columns, leveling heavy-equipment bases and fixing supports under vibration or dynamic loads. It can be used for precision grouting of foundations, motor bases, turbines, pumps and industrial components, and structural elements requiring dimensional stability and load transfer without shrinkage. Suitable indoors and outdoors. Do not use as a repair mortar or under aggressive chemical exposure without suitable protection.

Procedure and identification

Substrate preparation: surfaces must be clean, sound and free of dust, grease, paint, oil and loose residue. Remove degraded concrete and degrease metal bolts or anchors. Anchor holes must be at least 2.5 cm wider than the bar or bolt diameter. Dampen concrete to saturated surface-dry (SSD) condition and remove excess water before application.

Mortar preparation: add 21% clean water per 20 kg bag, depending on the required consistency (plastic, fluid or superfluid). Gradually add powder while mixing with a drill or low-speed mixer (300 rpm) until uniform and lump-free. Do not add more water once setting has begun. Working time is approximately 60 minutes at 23 °C.

Product application: • Dry application: place manually and compact firmly. • Plastic application: pour continuously from one end to avoid trapped air. • Superfluid application: pour or pump from one end, ensuring continuous flow and air escape. For cavities deeper than 15 cm, add clean 6–10 mm gravel at 25% of the grout weight. Maintain +5 °C to +35 °C during application. Do not apply in rain or extreme temperatures.

Consumption: 2.2 kg/dm³ of cavity volume. Setting time: initial < 2 h, final < 7 h. Application temperature: +5 °C to +35 °C. Pack size: 20 kg bag. Storage: 12 months in original packaging in a dry location protected from moisture.

Property	Characteristic value
Consistency	Premixed flowable powder
Color	Cement gray
Bulk density	1.750 kg/m ³
Solids content	100%

GP-C70-F10 (high-strength precision cementitious grout)

ISO classification	strength)
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 21% water
Mix density	2.200 kg/m ³
Mix pH	12
Consistency	Fluid – self-leveling
Application temperature	+5 °C to +35 °C
Application thickness	10 – 100 mm
Working time	30 – 40 minutes
Initial set	≈ 4 hours
Initial curing	24 hours
Compressive strength (1 day)	≥ 35 N/mm ²
Compressive strength (7 days)	≥ 60 N/mm ²
Compressive strength (28 days)	≥ 70 N/mm ²
Flexural strength (28 days)	≥ 10 N/mm ²
Substrate adhesion	≥ 2.0 N/mm ²
Controlled expansion (24 h)	0.1 – 0.3 %
Linear shrinkage	< 0.05 %
Water permeability	Waterproof (0 leaks at 2 bar)
Service temperature range	-20 °C to +90 °C
Compatibility with reinforcing steel	Complete, non-corrosive