

Technical data sheet

GRAY PROFESSIONAL GROUT / INTERIOR - EXTERIOR

Grouts / 20 kg



GROUTS

GROUT PROFESIONAL GRIS

Color: Gris

20 KG

CONTENIDO NETO

GRT-GPR-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 PROFESSIONAL GROUT / INTERIOR - EXTERIOR

Agreed pack size: 20 kg · Color: Gray

SKU: GRT-GPR-GRI-020

Digital information and downloads

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

<https://mascro.com.mx/productos/grout-profesional-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 Professional Grout is a premixed, expansive, high-flow cementitious mortar, free of chlorides and metallic aggregates, for structural anchoring, baseplate filling and machinery fixing. It contains special hydraulic cements, fine graded aggregates (≤ 1 mm) and controlled-expansion additives that prevent segregation and provide excellent cohesion and volume stability. It develops high early and final compressive and flexural strengths while retaining volume during setting. It offers excellent concrete and steel adhesion, high dynamic-load resistance and strong waterproofing. Its elastic modulus and thermal expansion coefficient resemble structural concrete, ensuring dimensional compatibility. It is non-corrosive and non-toxic and can be used indoors and outdoors in accordance with ASTM C1107 and CRD-C621.

APPLICATIONS

Recommended for precision anchors, heavy-machinery fixing, steel structures and precast elements. Suitable for filling baseplates, columns, beams, footings and structural supports requiring a fluid, strong, shrinkage-free material. Suitable for cavities or rigid joints in concrete and precast concrete, foundation underpinning, bolt or bar anchoring, and damaged concrete repairs. It can also be used for bridge-bearing grouting, shoring and structural grouting under moderate dynamic loads. It can be applied manually or by pumping, indoors and outdoors, providing high dimensional accuracy in anchoring.

Procedure and identification

Substrate preparation: thoroughly remove dust, grease, paint, release agents and loose residue. Anchor holes must be at least 2.5 cm wider than the steel bar. Dampen to saturated surface-dry (SSD) condition and remove excess water.

Mortar preparation: in a clean container, add 15% to 17% clean water per 20 kg bag, depending on the required consistency (paste, plastic or fluid). Gradually add powder while mixing with a low-speed drill (300 rpm) until uniform and lump-free. Do not add more water once application has begun. Mix for 3 to 5 minutes and apply immediately.

Grout application: place the mix from one side of the cavity with continuous flow to prevent trapped air. • Paste consistency: apply manually with a trowel or shovel. • Plastic consistency: pour from one end, assisting with a metal bar or chain. • Fluid consistency: apply by low-pressure pump or controlled manual pouring. For depths greater than 6.5 cm, add clean 6–10 mm gravel at 30–40% of the grout weight.

Curing: protect from wind, heat and excessive evaporation. Cure for 3 days, retaining moisture with plastic, damp fabric or a curing compound complying with ASTM C309.

Consumption: 2.2 kg/dm³ of cavity volume. Application temperature: +5 °C to +35 °C. Working time: 30 to 60 minutes depending on consistency. Color: Gray. Pack size: 20 kg bag. Storage: 12 months in a dry, shaded location in unopened original packaging.

Property	Characteristic value
Consistency	High-flow premixed powder
Color	Cement gray
Bulk density	2.000 kg/m ³
Solids content	100%

GP-C80-F10 (high-strength structural 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 15% to 17% water
Mix density	2.250 kg/m ³
Mix pH	12
Consistency	Fluid – self-leveling
Application temperature	+5 °C to +35 °C
Application thickness	10 – 120 mm
Working time	30 – 40 minutes
Initial set	≈ 4 hours
Initial curing	24 hours
Compressive strength (1 day)	≥ 45 N/mm ²
Compressive strength (7 days)	≥ 70 N/mm ²
Compressive strength (28 days)	≥ 80 N/mm ²
Flexural strength (28 days)	≥ 10 N/mm ²
Substrate adhesion	≥ 2.5 N/mm ²
Controlled expansion (24 h)	0.1 – 0.3 %
Linear shrinkage	< 0.04 %
Water permeability	Waterproof (0 leaks at 2 bar)
Service temperature range	-20 °C to +90 °C
Compatibility with reinforcing steel	Complete, non-corrosive
Chemical resistance to oils and fuels	High