PEGABLOK® TIPO N

Mortar mix for laying medium strength masonry units

DESCRIPTION

Pegablok® Tipo N is a pre-blended mortar mix of cement, sand and high-quality admixtures, designed for laying medium or moderate strength concrete masonry units, in interior and exterior applications, above grade.

USES

- Moderate strength block walls.
- Above grade.
- Exterior and interior applications.
- For reinforced or non-reinforced masonry.

FEATURES

- Compressive strength of 53 kg/cm^2 (5,2 MPa or 750 psi) at 28 days.
- High water retention prevents the need to adjust the consistency of the mix with water during the use of the mortar.
- Excellent workability and plasticity.
- Prevents cracking on walls.
- Excellent adhesion; does not sag.
- Easy to tool at the joints.
- Compared with traditional mortars: more speed, less material waste, better order and cleanliness, less physical effort, more productivity and cost savings.
- Controlled and constant quality.
- Long-lasting; contains high quality, clean sand. Does not contain sand from rivers or oceans.
- Complies with the requirements of the Seismic Code of Costa Rica 2010 (CSCR).
- Complies with ASTM C 270 Type N, INTE C91:2015 Tipo N, NTE INEN 2518 Tipo N and INTE C109:2017.

PACKAGING

Costa Rica / Nicaragua / Panama	Ecuador
40 kg	25 kg and 40 kg
Gray	Gray

INSTALLATION

WATER DOSAGE

Water dosage	Costa Rica / Nicaragua	Ecuador	Panama
25 kg bag	-	3,2 L – 3,9 L	-
40 kg bag	5,5 L – 6,5 L	5,2 L – 6,2 L	5,5 L – 6,5 L

SURFACE PREPARATION

The surface that will be in contact with Pegablok® Tipo N must be clean, sound and free of loose particles, laitance, oil, wax, sealers, curing compounds, grease, paint, efflorescence or any other contaminant. Moisten substrate well and make sure surface temperature is 30 ºC or lower. Clean the sides of the blocks to ensure a good adhesion of the mortar.

MIXING

Add Pegablok® Tipo N to clean water according to the water dosage table above. Mix to a plastic and homogeneous consistency.

APPLICATION

Place a mason line as a guide for the installation and apply a full bed of Pegablok® Tipo N onto the base. Each block must have mortar at the head joints (vertical joints) before being placed. Press downwards and towards the previously laid block with a slight twisting motion. Place mortar on the bed joints and then set the next level of blocks, respecting the level and plumbness. Pick up the excess mortar from the joint. Constantly verify the level of the wall. Once the mortar is thumbprint hard, tool it with a jointer. Protect Pegablok® Tipo N from rain and vibration for at least 8 hours.

CLEAN-UP

Clean all tools with soapy water before mortar dries.

CURING:

Keep surface damp with water for the first 72 hours for better curing, starting the following day.

COVERAGE (number of blocks)

One bag of 40 kg produces approximately 20 liters of mortar. Coverage depends on joint width and block dimensions. The values in the following charts are given only a guide.

Coverage for Costa Rica

Block dimensions	Joint width	Number of blocks per 40 kg bag
12 cm x 19 cm x 39 cm	10 mm	17 – 20
15 cm x 19 cm x 39 cm		12 – 15
19 cm x 19 cm x 40 cm		10 – 12
12 cm x 19 cm x 39 cm	15 mm	15 – 17
15 cm x 19 cm x 39 cm		10 – 12
19 cm x 19 cm x 40 cm		8 – 10

Coverage for Ecuador

Concrete masonry

Block dimensions	Joint width	Number of blocks per bag	
		25 kg	40 kg
6 cm x 19 cm x 39 cm	10 mm	15 – 18	24 – 28
9 cm x 19 cm x 39 cm		12 – 14	20 – 23
14 cm x 19 cm x 39 cm		10 – 12	17 – 20
19 cm x 19 cm x 39 cm		9 – 11	15 – 18
6 cm x 19 cm x 39 cm	15 mm	10 – 12	16 – 19
9 cm x 19 cm x 39 cm		8 – 9	13 – 15
14 cm x 19 cm x 39 cm		7 – 8	11 – 13
19 cm x 19 cm x 39 cm		6 – 7	10 – 12

Clay masonry

Block dimensions	Joint width	Number of blocks per bag	
		25 kg	40 kg
7 cm x 31 cm x 41 cm	10 mm	12 – 14	20 – 22
9 cm x 31 cm x 41 cm		8 – 10	14 – 16
10 cm x 20 cm x 40 cm		11 – 12	18 – 20
7 cm x 31 cm x 41 cm	15 mm	8 – 9	13 – 15
9 cm x 31 cm x 41 cm		6 – 7	9 – 11
10 cm x 20 cm x 40 cm		7 – 8	12 – 13

Coverage for Panama

Concrete masonry

Block dimensions		Joint width	Number of blocks per 40 kg bag
Nominal	Real		
6” x 8” x 16”	14 cm x 19 cm x 39 cm	10 mm	11 – 13
8” x 8” x 16”	19 cm x 19 cm x 39 cm		15 – 18
4” x 8” x 18”	9 cm x 19 cm x 44 cm		16 – 18
6” x 8” x 18”	14 cm x 19 cm x 44 cm		14 – 16
6” x 8” x 16”	14 cm x 19 cm x 39 cm	15 mm	7 – 9
8” x 8” x 16”	19 cm x 19 cm x 39 cm		10 – 12
4” x 8” x 18”	9 cm x 19 cm x 44 cm		10 – 12
6” x 8” x 18”	14 cm x 19 cm x 44 cm		9 – 11

TECHNICAL DATA

Complies with ASTM C 270 Type N, INTE C91:2015 Tipo N, NTE INEN 2518 Tipo N and INTE C109:2017.

Pegablok Tipo N information	Results
Flow ASTM C 1437	110% ± 5%
Air content ASTM C 231	≤ 14%
Water retention ASTM C 1506	≥ 75%
Compressive strength at 28 days ASTM C 109	≥ 5,2 MPa

Note: In lab tests ran by INTACO, Pegablok® Tipo N in a humidity chamber for 12 months showed no deterioration. On the contrary, its strength showed higher values than the one obtained at 28 days.

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ENVIRONMENTAL CONTRIBUTION

Information of the contribution to the environment	
Diversion from landfills	INTACO packaging materials are made of paper and/or plastic that may be diverted from landfills.
Regional materials	Place of extraction of aggregates and of gray cement manufacturing (for gray mortars) are within a radius of 804 km from INTACO's manufacturing facilities.
Low emitting materials	VOC content is 0,0 g/L (minus water). Complies with VOC levels of South Coast Air Quality Management District. Tests under ASTM D6886-03 method.

SHELF LIFE AND STORAGE CONDITIONS

Storage time is 6 months from the manufacturing date, in its original closed package. Keep in a cool, dry place.

RECOMMENDATIONS

Small amounts of water may be added during the use of this mortar in order to keep a workable and plastic consistency that will maximize adhesion. Tool with a concave jointer to achieve better adhesion, watertightness and a neat appearance. Masonry units and material must be cool at the time of application. Do not use water with a temperature higher than 25 °C. Stop the construction of masonry walls if it is raining or if rain is foreseen to fall soon. In case the wall has been installed, cover it with plastic to protect it from the rain. If possible, use a mortar mixing machine. If the installation of pipes inside a built wall is needed, use a cutting machine to make the openings; do not hit the structure.

LIMITATIONS

Do not use Pegablok® Tipo N for the installation of clay masonry.

PRECAUTIONS

Wear adequate protection. Do not take internally. Avoid breathing dust. Eliminate or control dust while handling or placing this product. May burn or irritate the eyes or skin.

First aid: In case of contact, flush eyes or skin thoroughly for 15 minutes with clean water and get prompt medical attention. In case of ingestion, drink one or two glasses of water to dilute and get immediate medical attention.

WARRANTY

INTACO warrants that this product is free of defects and will perform in the way described in the technical sheet, only if the product is used strictly according to applicable specifications and instructions provided by INTACO for its use. INTACO will replace or, at INTACO's option, refund the purchase price of any product proven to be defective due to quality of ingredients or to the manufacturing process. INTACO does not take responsibility for indirect, consequential, incidental or special damages. Coverage and dosage data are susceptible to variations due to particular conditions in each job site; it is the user's responsibility to test and verify them at the site. This product data sheet may be changed without INTACO's notification.

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