

gap
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GAP

Fibre-reinforced tixotropic anti-shrinkage mortar for substrates and refurbishing on façades. Application in interior, exterior, on walls and floors. Thickness from 3 up to 30 mm as skimming-plaster and up to 50 mm as refurbishing mortar.

**substrate
preparation**

TECHNOKOLLA®





Blender/
Plaster sprayer/
Mixer/
Screw mixer



20±1%



5-35°C



Smooth



60 min



30 mm
as skimming
plaster
50 mm
for refurbishing



gap



MAIN FEATURES

- One pack
- Tixotropic
- Mouldable
- Very good adhesion
- Resistant against aggressive weather conditions
- Finishing in civil environments
- Spreadable by using of a plaster sprayer

ASPECT

Grey powder

STORAGE

12 months in a dry place

FIELDS OF USE

- Clipping da 3 a 30 mm in civil or industrial environments with thickness from 3 up to 30 mm, that can be laid after 12-48 h with ceramic ties or natural stones (depending on the thickness and the temperature).
- Refurbishing of balconies' risers and eaves.
- Restoration on façades of damaged parts of mortars, plasters or walls of good consistency.
- Skimming or repairing of reinforced concrete's surfaces.

SUBSTRATES

Cementitious plasters, limestone mortars, brick-walls, concrete.

NATURE OF THE PRODUCT

GAP mainly consists of high-strength cements, selected silicon/quartz mineral charges, copolymers of an organic nature and specific additives. Ask our technical department for the safety brief for further information.

OPERATIONS PRIOR TO APPLICATION

Remove all the crumbling or damaged parts of the concrete with a chisel. Prepare the iron. Remove any grease, oil and rust from the iron. This operation should be done by sandblasting. If this is not possible, briskly brush the surface of the metal with care and at depth. In any case, the purpose of this operation is to bare the white metal of the reinforcement. Additional or replaced reinforcements must be treated in the same way.

WARNING: do not allow more than 6 h to elapse between sandblasting and application of AKRON-FER.

substrate preparation



Veneta
Engineering
0505-CPD-1085



RECOMMENDED ACCESSORIES



TKW 407
Blender 1200



TKW 410
Circular



TKW 155
Smooth trowel 28x12 cm

HOW TO PREPARE THE MIXTURE

GAP should be mixed with about 5 l. of clean water per 25 kg bag (20±1%) until a homogeneous, lump-free mixture is obtained. If the substrates are particularly smooth, such as cast or surfaced concrete, the mixture can be made with TC-LAX and water in a 1:1 ratio, to allow GAP to bond with the substrate in a better way.

In all cases, it is advisable to use a low speed blender (approx. 500 rpm) since a high speed will reduce the mechanical characteristics of the product. Wait about 5 minutes, then stir the product briefly again and start applying.

APPLICATION OPERATIONS

Application for localized refurbishings. Apply the product with a trowel or by spreading in a max. thickness of 50 mm each coat. In case thicker coats have to be realized (max. 10 cm), apply a second hand as soon as the first one has set.

Application as skimming. Apply the product with a smooth steel trowel. Press the mortar well down on to the substrate to ensure a perfect bond.

However, remember that on sunny days or if the surface is very absorbent, this latter must be wetted with plenty of water to prevent the product from drying out and failing to adhere well. Max thickness in one coat: 30 mm Finishing in civil environments can be executed by a plastic trowel in 15-30 min. after the laying.

AMOUNT REQUIRED

1,6 - 1,7 kg/m² each mm of thickness

WARNINGS AND RECOMMENDATIONS

Do not apply to:

- metal, wood, ceramic floor surfaces and smooth or not-absorbent substrates

Do not apply on:

- plasters or gypsum based panels
- do not use on substrates subject to rising damp
- do not apply in layers less than 3 mm thick
- do not add anything to the product that is not specified in this brief
- do not use the product once it has started to set, adding water to make it more workable. Prepare a fresh mixture
- do not apply at temperatures lower than 5°C or higher than 35°C

TECHNICAL DATA	VALUE
Aspect	grey powder
Granulometry	1,2 mm
Apparent specific mass of powder	about 1400 kg/m ³
Mixing with water	20% ±1%
Apparent specific mass of fresh mortar	about 2000 kg/m ³
Pot life	about 1 hour*
Shelf-life	12 months in a dry place

FINAL PERFORMANCE	VALUE	STANDARD	NORM
Compressive strength after 3 days	≥ 8 N/mm ²		EN12190
Compressive strength after 28 days	≥ 15 N/mm ²	≥ 15 N/mm ²	EN12190
Flexural strength after 28 days	≥ 5 N/mm ²		EN196-1
Adhesion bonding	≥ 0,8 Mpa	≥ 0,8 Mpa	EN1542
Absorption by capillarity	≤ 0,5 kg*m ⁻² *h ^{-0.5}	≤ 0,5 kg*m ⁻² *h ^{-0.5}	EN13057
Durability after freezing/thawing cycles	≥ 0,8 Mpa (after 50 cycles)	≥ 0,8 Mpa (after 50 cycles)	EN13687-1
Chloride ions' content	≤ 0,05%	≤ 0,05%	EN101517
Fire reaction	A1	value declared by the producer	Euroclasse

APPLICATION DATA	VALUE
Application	by hand or mechanically
Minimum thickness allowed	3 mm
Maximum thickness as mortar	50 mm
Maximum thickness as skimming	30 mm
Can be tiled after	*12-48 h
Amount required	about 17 kg/m ² for every cm of thickness
Application temperature	min.+5°C, max.+35°C

* times referred to a temperature of +23°C and r.h. 50%

SPECIFICATION

The surfaces must be levelled with a cementitious based product to be mixed with water alone, that can be applied in layers up to 30 mm thick on both walls and floors, i.e. a product such as TECHNOKOLLA's GAP.

Technokolla reminds you to examine the **"notes"** document that completes the information in this data sheet. The document can be downloaded in the pdf format.

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