

Neofil Color 4-20 mm

COARSE-GRAINED MINERAL SEALANT, HIGHLY WORKABLE AND EASY TO CLEAN, GUARANTEED FOR PROFESSIONAL GROUTING ANTI-SHRINKAGE, WATER-REPELLENT, ANTI-MOULD, WITH HIGH RESISTANCE TO ABRASION, OF JOINTS FROM 4 TO 20 mm BETWEEN CERAMIC TILES OF ALL TYPES, PORCELAIN STONEWARE, GLASS AND MARBLE MOSAICS, LARGE SIZES, NATURAL STONES. FOR INDOORS AND OUTDOORS.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

NEOFIL COLOR 4-20 mm is a coarse grained mixture consisting of hydraulic binders, selected mineral fillers, synthetic resins and special additives, ensuring high workability, excellent final mechanical resistance, waterproof properties. Mixed with water it becomes an easy-to-apply and easy-to-clean product for grouting with a rough finish on ceramic floor and wall tiles. After complete curing, it exhibits excellent colour stability and, thanks to its low water absorption, counteracts the growth of mould and bacteria.

Conforms to European Standard EN 13888 - Class CG2WA · Improved cement (CG) sealant (2) with additional features of reduced water absorption (W) and high abrasion resistance (A).

FIELDS OF APPLICATION

NEOFIL COLOR 4-20 mm is used for filling joints that are between 4 mm and 20 mm wide between ceramic floor and wall tiles. Suitable for indoor and outdoor grouting between any type of ceramic tiles, porcelain and marbled stoneware, large formats, klinker, fired, glassy and marble mosaic and natural stones. If particular stress is foreseen in the grouting or when high mechanical strength and greater impermeability are required (such as in swimming pools, facades, balconies, areas with heavy traffic), mix NEOFIL COLOR 4-20 mm with the GIUNTOLASTIC liquid polymer additive fully or partially replacing the mixing water (in the case of microporous surface tiles, always check the cleanliness of the surface beforehand).

PREPARATION OF JOINTS

The joints to be sealed must be free from dust and adhesive residue throughout the thickness of the coating so as to have the most even depth possible. Different thicknesses would require different drying times with a possible variation in the final colour. The grouting can be applied at least 24 hours after laying the coating and in any case, check that the waiting times indicated in the technical data of the adhesive used have elapsed. Excess residual moisture between the joints can require different hardening times of the sealing grout, with the possible formation of efflorescence and a consequent variation in the final colour. Dampen the joints evenly before applying NEOFIL COLOR 4-20 mm, without creating puddles, can facilitate the application and favour increased mechanical strength.

APPLICATION

Prepare the mixture by strictly following the dosages indicated on the packages. Too much water or fractional mixing with different consistency can cause an uneven colouring in the surface.

Pour 25 kg of NEOFIL COLOR 4-20 mm into a clean container containing 5 litres of clean water and mix with an electric mixer at low speed, to avoid excessive air entrainment, until a homogeneous, lump-free paste is obtained. Let the mixture rest for a few minutes, remixing quickly before use. Apply the sealant with a smooth rubber trowel or a hard rubber doctor knife, compressing it inside the joints until they are filled, without leaving any gaps or unevenness. Remove any excess grout while fresh to guarantee a homogeneous finish, working diagonally with respect to the tiles. When the mixture of NEOFIL COLOR 4-20 mm loses its plasticity, clean the residue with a large wet sponge washed frequently in clean water, working in rotary movement so as not to dig the grouting. This step can also be carried out with a machine with sponge tape. A thin residual layer of clean water on the surface can prevent the colour from varying. Once the product is hardened properly, remove any residue with an abrasive sponge, such as Scotch-Brite, or a dry cloth to remove traces of dust. If the surface of the coating is still dirty due to an inadequate cleaning technique, PULINET descaling detergent can be used at least 10 days after applying the grouting, while bearing in mind that it is not to be used on limestone or marble surfaces.

YIELD

INDICATIVE YIELD (kg/m ²) according to the size of the tiles, the thickness of the tiles and the width of the joints										
FORMATO (cm)	SPESSORE (mm)	AMPIEZZA FUGHE (mm)								
		3	4	6	8	10	12	14	16	18
10x10	6	0,58	0,77	1,15	1,54	1,92	2,30	2,69	3,07	3,46
10x10	10	0,96	1,28	1,92	2,56	3,20	3,84	4,48	5,12	5,76
12,5x12,5	8	0,61	0,82	1,23	1,64	2,05	2,46	2,87	3,28	3,69
10x20	8	0,58	0,77	1,15	1,54	1,92	2,30	2,69	3,07	3,46
15x15	8	0,51	0,68	1,02	1,37	1,71	2,05	2,39	2,73	3,07
12x24,5	8	0,48	0,64	0,95	1,27	1,59	1,91	2,22	2,54	2,86
20x20	8	0,38	0,51	0,77	1,02	1,28	1,54	1,79	2,05	2,30
20x25	8	0,35	0,46	0,69	0,92	1,15	1,38	1,61	1,84	2,07
20x25	10	0,43	0,58	0,86	1,15	1,44	1,73	2,02	2,30	2,59
25x30	10	0,35	0,47	0,70	0,94	1,17	1,41	1,64	1,88	2,11
30x30	8	0,26	0,34	0,51	0,68	0,85	1,02	1,19	1,37	1,54
33x33	8	0,23	0,31	0,47	0,62	0,78	0,93	1,09	1,24	1,40
40x40	10	0,24	0,32	0,48	0,64	0,80	0,96	1,12	1,28	1,44
30x60	10	0,24	0,32	0,48	0,64	0,80	0,96	1,12	1,28	1,44
60x60	10	0,16	0,21	0,32	0,43	0,53	0,64	0,75	0,85	0,96
90x90	12	0,13	0,17	0,26	0,34	0,43	0,51	0,60	0,68	0,77

FORMULA FOR CALCULATING SEALANT YIELD:

$$\left(\frac{A + B}{A \times B} \right) \times C \times D \times 1,6 = \frac{kg}{m^2}$$

Legend:




A and B = tile side dimensions (in mm)

C = thickness of the tile (in mm)

D = width of the joint (in mm)

1.6 = specific weight of sealant in kg/dm³

COLOUR CHART

	06 manhattan
	25 grigio cemento
	26 antracite

N.B. The colours shown above are purely indicative and may have slightly different shades from the original ones of the product for printing reasons.

RECOMMENDATIONS

- ◆ Always observe the recommended mixing ratio; do not add excess water when the hardening process has started, as it would significantly decrease the mechanical resistance and variations in the shades of the colour may occur.
- ◆ When applying in hot, dry or windy climates, it is advisable to dampen the joints filled with NEOFIL COLOR 4-20 mm after a few hours, as wet curing of the product improves the final result in any case.
- ◆ It is advisable to always make a preliminary test with a tile that is not laid so as to check its porosity and the level of cleaning difficulty; if necessary, apply a protective treatment on the surface of the tiles.

PACKAGING

NEOFIL COLOR 4-20 mm is available in 25 kg polyethylene coated paper bags on 1500 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months

SAFETY INSTRUCTIONS

The product contains cement that, in contact with body perspiration, produces an irritant alkaline and sensitising reaction for the skin. Use suitable clothing, gloves and protective glasses.

Refer to the respective Safety Data Sheet for more information about how to use the product safely.

ITEM SPECIFICATIONS

Professional non-shrinking, water-repellent, anti-mould grouting of joints from 4 to 20 mm wide between ceramic tiles of any type, by applying a coarse-grained mineral sealant with high resistance to abrasion, classified as CG2WA by Standard EN 13888, such as **NEOFIL COLOR 4-20 mm** by COLMEF Srl.

TECHNICAL DATA

Compliant with Standard:	EN 13888
Class:	CG2WA
Appearance:	powder
Colour:	see the colour chart
Mixing ratio:	~ 5.5 litres of water per 25 kg of powder
Specific weight of the mixture (kg/dm ³):	1.60
pH value:	> 12
Mix pot life:	~ 2 h
Setting start time:	≤ 3 h
Setting end time:	≤ 4 h
Grouting:	
- floor laid with adhesive	24/36 h
- floor laid with quick-setting adhesive	3/6 h
- floor laid with traditional mortar	10 days
- covering laid with adhesive	6-8 h
Waiting time for cleaning:	~ 30 min. (depending on absorption of substrate and laid material)
Walkability:	24 h
Commissioning:	7 days
Allowed application temperature:	from +5 °C to +35 °C
Operating temperature:	from -30 °C to +90 °C

FINAL PERFORMANCE according to EN 13888 Class CG2WA

	Results	Test method
Compressive strength 28 days (N/mm ²):	≥ 15	EN 13888
Compressive strength after freeze-thaw cycles (N/mm ²):	≥ 15	EN 13888
Bending strength 28 days (N/mm ²):	≥ 2.5	EN 13888
Compressive strength after freeze-thaw cycles (N/mm ²):	≥ 2.5	EN 13888
Abrasion resistance (³mm):	≤ 1000	EN 13888
Water absorption after 30 min. (g):	≤ 2	EN 13888
Water absorption after 240 min. (g):	≤ 5	EN 13888
Resistance to humidity:	excellent	
Resistance to ageing:	excellent	

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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