



OLY GROUT COLABILE is a non-shrinkage concrete grout, enriched with corrosion inhibitors, fiber-reinforced, with a pourable consistency, with high mechanical resistance to short and long seasonings and high resistance to sulphates. It is CE marked as R4 mortar according to UNI EN 1504-3 ("structural and non-structural repair"). The advantages include: final mechanical development required for R4 mortars within the first 7 days; it has corrosion inhibitors, free of metal particles and free of chlorides; zero cracking risk; mixed with additives or latexes it is used for applications with specific needs; available in variants with different types of grain size and fibers; durability and resistance to environmental aggressions proven by works dating back to the early 1980s; easy to apply: excellent workability and ease of application (manual or mechanized).

OLY GROUT COLABILE is used to create collaborative castings, rigid fillings of joints with a thickness of more than 5 cm, very thick restorations of degraded reinforced concrete works, of concrete floors, floors, decks of road and railway works. For thicknesses greater than 10 cm, mix it at 30% by weight with washed aggregates free of impurities with a minimum particle size greater than 10 mm and maximum diameter according to the thickness of the casting.

Properties	Typical value
Appearance	Powder
Colour	Grey
Specific apparent weight UNI 9446	1,85 ± 0,1 g/cm ³
Hazard classification 1999/45 / EC and 67/548 / EEC	Stinging
Maximum size of the aggregates	6 mm
Apparent density of fresh mortar UNI EN 1015-6	2250 ± 50 Kg/m ³
Consistency of the mixture UNI 7044/72	>200%
Initial setting time UNI EN 196-3	150 ± 30 minutes
Setting time UNI EN 196-3	240 ± 30 minutes
Minimum application temperature	+5°
pH of the mixture	12 ± 0,5
Stability UNI EN 196-3	150 ± 30 minutes
Exudation UNI 8988	Absent

Properties	EN 1504-7 limits	Typical value
Compressive strength after 28 days UNI EN 12190 [MPa]	≥ 25	1 days > 9,4 7 days > 35,7 28 days > 47
Flexural tensile strength UNI EN 196/1 [MPa]	No request	1 days > 2,2 7 days > 5 28 days > 5,8
Compression secant elastic module EN 13412 [GPa]	≥ 15	19,8
Chloride content EN 1015-17 [%]	$\leq 0,05$	0
Adhesion to concrete (UNI EN 1542) [MPa]	≥ 2	3,2
Adhesion to concrete (UNI EN 1542) after dry cycles EN 13687-4 [MPa]	≥ 2	>2
Adhesion to concrete (UNI EN 1542) after storm cycles EN 13687-2 [MPa]	≥ 2	>2
Adhesion to concrete (UNI EN 1542) after freeze-thaw cycles EN 13687-1 [MPa]	≥ 2	2,9
Resistance to accelerated carbonation, UNI EN 13295	Carbonation depth, $dk < \text{Reference concrete type MC 0.45 a/c}$	Specification passed
Impermeability to water (capillary absorption coefficient, UNI EN 13057) [$\text{Kg/m}^2 \cdot \text{h}^{1/2}$]	$\leq 0,5$	< 0,5

Instructions for correct installation

The product can be used ready to use with the simple addition of drinking water for each pack, of the quantity indicated in the table. The substrate to be treated must be perfectly clean, free of grease, oil and release agents in general; roughen the entire concrete surface using a bushhammer.

The surface tensile strength of the "Pull off" concrete must not be less than 1.5 MPa, as indicated by the quality control procedures of the substrate according to EN 1504-10. If the support has lower mechanical characteristics, the designer will evaluate the measures to be taken to protect against the poor characteristics of the original material (consult the Technical Office). Any metal reinforcements in sight must be freed of the concrete in contact with them and subsequently protected with **OLY FER** applied by brush. Saturate the area to be treated, taking care to eliminate any stagnant water when casting. Mix the product for about 5 minutes with a cement mixer or, in the case of small doughs, with a drill and whisk. Add the $\frac{3}{4}$ of water required and, continuously, the product and the



remaining water until the desired consistency is obtained. The coatings must have a suitable contrast reinforcement anchored to the existing structure with a minimum concrete cover of 2 cm. For thicknesses greater than 10 cm, mix *OLY GROUT COLABILE* with about 30% of washed siliceous inert, free of impurities, with a minimum particle size greater than 10 mm and a maximum diameter according to the thickness of the casting. For particular types of applications, our Technical Office is at your disposal for more information.

Consumption

2000 Kg/m³

Package

Sacks of 25 Kg.

Pallet 60x25 – 1500 Kg.

Storage, use and safety precautions

The product fears humidity, store in tightly closed containers, in a sheltered and dry place. In these conditions its stability is 12 months.

Certifications

All the products *OLYMPUS-FRP* are certified by our producers.

It is possible to receive the certificate of origin of the materials and the certificate of characterization of mechanical properties.

Warnings

Given the possibility that different supplies of the same raw materials have slightly discordant colors, between one production batch and the other there may be small chromatic variations that do not in any way affect the technical performance of the products supplied. Do not mix the product by adding water once it has set. Do not dilute excessively to avoid that the product loses its chemical-physical and mechanical properties becoming crumbly. Do not add cement, aggregates, additives or other mortars. Check the integrity of the package before use and do not use the product with lumps. Use all the material once the package has been opened. Do not perform applications on sunny

surfaces, with temperatures lower than + 2°C or higher than + 35°C. The technical characteristics and methods of application indicated by us in this bulletin are based on our current knowledge and experience, but cannot imply any guarantee on our part on the final result of the product applied. The customer is required to verify that the product is suitable for the intended use and to ensure that the technical bulletin is valid and not passed by subsequent updates.

Product for professional use

Rev. 001-20

For information, technical assistance and more system for structural reinforcement system, visit the website:

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