la scelta giusta
per grandi progetti.

SCHEDA TECNICA

BETON 350 RCK

READY-TO-USE GROUT

PRODUCT
Reinforced grout for hand or machine application (spritz beton) for reinforcing work.

CHARACTERISTICS
The product is easy to prepare, it has excellent workability, great fluidity, high adhesion to the substrate, high mechanical strength and weather resistance. At controlled shrinkage, it allows a good resistance against chemical agents and carbonation.

APPLICATION FIELD
Works of consolidation with manual or mechanized application (spritz beton) in tunnels, canals, tanks etc. Interior - exterior.

SUBSTRATES
Structures of concrete and reinforced concrete, masonries with good consistency.

CONSUMPTION
18,0 - 19,0 kg/sqm per cm of thickness

PACKAGING
25 kg bags on pallets of 1500 kg.

STORAGE
It can be stored 12 months in a dry place in its original packaging.

ITEM SPECIFICATIONS
The filling of micro piles and the structural reinforcement with manual or mechanized application (spritz beton) of reinforced concrete and concrete structures, must be made with a specific ready grout, such as Beton 350 RCK by Edilcol Italia, to be mixed with water which have, after 28 days, a compressive strength ≥ 45,0 N/sqmm.

PREPARATION of the substrate

- Prepare the surfaces to be treated freeing them from dust, efflorescence, oil and grease, degraded and loose parts, repairing eventual degraded areas using the mortar for structure recovery MX 300 Tixotropic (class R3) or MX 300 Tixotropic Plus (class R4) (see their technical data sheets).
- Wet the surface to be treated with water until saturation, then remove the excess of water and wait until the surface is dry before applying the product.

APPLICATION by hand

- Mix a bag of Beton 350 RCK with approximately 5,5 - 6,0 liters of water, either manually or with a mixer at a low number of turns, until obtaining a homogeneous and plastic mixture. Leave it rest for some minutes then briefly remix it before applying the product.

APPLICATION by machine

Adjust the flow of the plastering machine at about 20 liters for every 100 kg of Beton 350 RCK, up to obtain a consistent and plastic mortar suitable for filling micro piles (diameter 25 - 35 cm).

RECOMMENDATIONS

Do not add other products to the mixture of Beton 350 RCK and do not re-mix or add other water to the product during the setting phase.
Do not apply on gypsum or painted surfaces. Do not apply directly on friable, smooth and non-absorbent surfaces. Avoid outdoor application in very hot or windy days, on ice substrates, during the thaw or with risk of frost for the 24 hours following the application and at temperatures lower than +5 °C or higher than +35 °C.
Protect Beton 350 RCK from a too rapid initial evaporation, which can be the cause of cracks, moistening the treated surfaces.

DATI TECNICI

Rev. 02 - 02/2016

Appearance:	grey powder	
Composition:	cement, calibrated aggregates, resins, additives	
Particle size:	≤ 3,0 mm	
Application temperature:	+ 5°C / + 35°C	
Mixing water:	≈ 20 %	
Density of fresh mortar:	≈ 2000 Kg/m^3	(EN 1015-6)
Density of hardened mortar:	≈ 1800 Kg/m^3	(EN 1015-10)
Pot life:	≈ 1 hour	
Thickness of each layer:	1 - 3 cm	
Minimum feasible thickness:	≥ 1,0 cm	
Maximum thickness achieved:	≈ 6 cm	
Waiting time before 1st and 2nd coat:	≈ 5 - 6 hours	
Compressive strength (28 days):	≥ 45 N/sqmm	(EN 196-1)
Flexural strength (28 days):	≥ 9,0 N/sqmm	(EN 196-1)
Adhesion to the substrate (28 days):	≥ 1,0 N/sqmm	(EN 1542)
Resistance to fire:	Class A1	(EN 13501)
Contribution of smoking:	none	
Hazard classification:	none	(EC 99/45)

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