

ZNR™ GROUT EP 420 W

Epoxy-Based, Moisture Tolerant, Flowable, Anchorage and Mounting Mortar

Product Description	Epoxy-based, moisture-tolerant, two component, flowable anchorage, cast, repair, and leveling mortar that contains aggregates with special gradation.																								
Product Number	302																								
Public Works Item Number	04.613/ 8-e																								
Areas of Application	<ul style="list-style-type: none">• For filling and repair of hollows, cracks and fractures for anchorage works,• For filling of wide cracks (larger than 10 mm) for concrete repairs,• For attaching elastic dilatation bands,• For fixation of roadside barriers,• For mounting of metal profiles to concretes, for machinery foundations,• Mechanical joints of bridges,• As bedding mortar.																								
Characteristics /Advantages	<ul style="list-style-type: none">• Can be used on dry and humid surfaces. Solvent-free.• Non-shrink.• Provides early high resistance.• Very high chemical and mechanical abrasion resistance.• Very easy-to-use,																								
Technical Data	<table><tr><td>Color</td><td>Grey-Fume</td></tr><tr><td>Package</td><td>20.0 kg (A+B) sets</td></tr><tr><td>Density</td><td>~1,50 gr /cm³ mix of A+B+C sets (at 23 °C)</td></tr><tr><td>Pot Life</td><td>30 min. @ 23°C</td></tr><tr><td>Compressive Strength</td><td>≥ 35 MPa @ 1 day ≥ 80 MPa @ 7 days</td></tr><tr><td>Flexural Strength</td><td>≥ 20 MPa @ 1 day ≥ 30 MPa @ 7 days</td></tr><tr><td>Bonding Strength</td><td>≥ 2 MPa on Concrete ≥ 3 MPa on Steel</td></tr><tr><td>Pull of Strength</td><td>≥ 20 MPa @ 7 days ≥ 30 MPa @ 28 days</td></tr><tr><td>Change in Volume</td><td>No change, non-shrink.</td></tr><tr><td>Consumption</td><td>~1.50 kg/m² for 1mm of thickness Ask for consumption table for anchorage applications.</td></tr><tr><td>Storage</td><td>Shelf life is approximately 1 year. Products should be stacked in a cool and dry place.</td></tr></table>			Color	Grey-Fume	Package	20.0 kg (A+B) sets	Density	~1,50 gr /cm³ mix of A+B+C sets (at 23 °C)	Pot Life	30 min. @ 23°C	Compressive Strength	≥ 35 MPa @ 1 day ≥ 80 MPa @ 7 days	Flexural Strength	≥ 20 MPa @ 1 day ≥ 30 MPa @ 7 days	Bonding Strength	≥ 2 MPa on Concrete ≥ 3 MPa on Steel	Pull of Strength	≥ 20 MPa @ 7 days ≥ 30 MPa @ 28 days	Change in Volume	No change, non-shrink.	Consumption	~1.50 kg/m² for 1mm of thickness Ask for consumption table for anchorage applications.	Storage	Shelf life is approximately 1 year. Products should be stacked in a cool and dry place.
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Surface Preparation	The application surface should be cleaned from loose parts, grease and other chemicals and should be crack-free, clean, dry, and mildly humid.																								
Preparation Instructions	Mix components A and B together with a 400 cycle/minutes mixer until homogenous color is achieved (approximately 3 minutes). Pay attention to avoid air entraining during mixing.																								
Application	For repair applications; thickness should not exceed 10 cm for each layer. General purpose adhering; Apply ZNR GROUT EP 420 on both sides and do not move the parts until it fully dries. Application thickness should be minimum 12 mm and maximum 50 mm.																								
General Matters	Abovementioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, cannot control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased material for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help.																								

Disposal	Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.
Safety Information	Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.