

FOSROC® XR PE20

constructive solutions

Polyester Resin Mortar for bedding road ironwork where heavily trafficked



Uses

For the rapid installation of manhole frames in Type 1 & 2 carriageways. For bedding and fixing kerbstones. Repairing and re-profiling precast units

Advantages

- Fast development of strength minimises disruption
- Versatile mix part packs to consistency required
- No primer required
- High chemical and oil resistance
- Will cure down to 0°C
- Manufactured under an approved BS EN ISO 9000 Quality System
- Mixed by hand or mechanical mixing
- High flexural and tensile strengths

Standards compliance

Conforms to Department of Transport Specification, HD27/94.

Design Manual for Roads and Bridges, Vol. 7:Sec 2: 3.11. requirements for rapid repair.

Description

FOSROC® XR PE20 is a two-component material based on a liquid polyester resin and a powder activator/filler. The consistency of FOSROC® XR PE20 can be varied from pourable to trowellable mortar by adjusting the resin to powder ratio, without significant affects on setting time or strength.

Properties

- Bond strength: FOSROC® XR PE20 forms a bond to most structural materials provided the surfaces are dry and suitably prepared
- Durability: FOSROC® XR PE20 performs at temperatures as high as 60°C and at sub zero temperatures
- Chemical resistance: Fully cured FOSROC® XR PE20 is unaffected by water, petrol, oil and many corrosive chemicals

Property	Typical result
Compressive Strength @ 20°C	1 hour: 50N/mm ²
	2 hours: >60N/mm ²
	28 days: >70N/mm ²
Tensile strength @ 20°C	28 days: 9N/mm ²
Flexural strength @ 20°C	7 days: 20Nmm ²
Working life	5-10 minutes*
Setting tim	15 minutes*
Return to service	60 minutes*
Fresh wet density	2140 K/m ³

* dependant on temperature

Instructions for use

Preparation

For bedding applications:

- The surface should be free from contamination, oil and any loose material
- The substrate should be roughened by mechanical means such as grit blasting or scabbling
- Blow clean the prepared area with oil-free compressed air

For concrete repair applications:

- Saw-cut square the extremities of repair to a depth of at least 5mm. Break out to a minimum of 5mm up to sawn edge. Clean surface and remove dust and any other contaminants
- Expose any reinforcing steel and remove loose corrosion, cleaning to a bright condition including the backs of the bars. Abrasive blasting and high pressure washing of the steel are recommended
- Blow clean the prepared area with oil-free compressed air
- Prime reinforcing steel with Nitoprime Zincrich. No priming of concrete is required with FOSROC® XR PE20

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Mixing

Pour the required quantity of liquid resin into the mixing bucket and add the powdered hardener slowly, stirring continuously for 3 minutes until a uniform consistency is achieved.

Application

For bedding applications:

- Apply the mixed material immediately after mixing
- Do not try to remix after initial hardening is evident
- Do not apply onto wet substrates

For concrete repairs:

- Apply by steel trowel, pressing firmly into place for good adhesion and compaction, compacting well around any exposed reinforcing bars. Finish to a tight surface with a steel trowel
- FOSROC® XR PE20 can be applied in sections up to 75mm in one layer. Maximum bay size is 0.25m² and a maximum lineal run of 1 metre
- Do not apply when the concrete and/or air temperature is below freezing, or where the surface is contaminated with frost or ice

Cleaning

Remove all product from tools with Fosroc Solvent 105 immediately after use.

Limitations

FOSROC® XR PE20 should not be applied to damp or wet surfaces where a bond is required, nor should it be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour.

Apply the mixed FOSROC® XR PE20 immediately after mixing. Do not re-mix once initial hardening has started.

Do not add water to the mix.

Estimating

Supply	15 kg poly tubs
Yield	7 litres approx

Storage

Store in dry conditions in original, unopened packs.

Shelf life is 12 months if kept in a dry store in original, unopened packs.

General information

Do not apply to damp or wet surfaces in applications where the bond is critical.

Do not expose to rainfall or moving water prior to the final set.

Minimum application thickness 5mm.

Health & safety

For further information refer to appropriate Product Safety Data Sheet.

Flashpoint : 29°C.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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