

1. DESCRIPTION

BETÃO-S ESTRUTURAL RÁPIDO is a fast setting dry premixed grey concrete. It is formulated from hydraulic binders, limestone and siliceous aggregates, adjuvants and steel fibres, facilitating their application and providing excellent durability performance.

2. FIELD OF USE

BETÃO-S ESTRUTURAL RÁPIDO is specially designed for placing manholes on roads with traffic, repairing and filling in large thicknesses on concrete floors requiring quick drying and fixing of urban elements: advertising panels, benches, flower boxes, traffic signs or telecommunication, electricity and gas boxes.

BETÃO-S ESTRUTURAL RÁPIDO is suitable for applications on cement-based substrates where work is to be completed quickly or where deadlines are short, seeing that it makes it possible to circulate within 2h of application. For non-common uses or on particular substrates, we advise you to contact our Technical-Commercial Service.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Grey	-
Maximum granulometry	10mm	-
Paste product	Value	Standard
Mixing water	9 ± 1,0 %	EN 1015-3
A/B ratio	≤ 0,62	-
Density	2200 ± 100 kg/m ³	EN 12350-6
Theoretical Consumption	20 kg/m ² /cm	-
Hardened product	Value	Standard
Compressive strength		EN 12390-3
- 2 hours	6,5 MPa	
- 24 hours	25 MPa	
- 28 days	50 MPa	
Flexural Strength (28 days)	10,2 MPa	
Usage time of the paste at 20°C	15	-

4. APPLICATION**a) Substrate preparation**

Before applying **BETÃO-S ESTRUTURAL RÁPIDO** it should be ensured that the substrate, formwork or mould are watertight and clean and, in the case of metal parts, they should be clean, free of grease and oxides. Substrates should be previously moistened, having no water film by the time the product is applied.

When repairing concrete floors, it is recommended to apply **REDUR AD 04**, as well as after cleaning the substrate and immediately before applying **BETÃO-S ESTRUTURAL RÁPIDO**.

b) Preparation of mixture

BETÃO-S ESTRUTURAL RÁPIDO should be mixed by using an electric mixer, adding the amount of water appropriate to the intended consistency.

If a fluid consistency is wished, 2,5 litres of clean water (preferably potable) per 30 kg-bag should be added.

Mix until a homogeneous mixture is obtained, for at least 3 minutes.

BETÃO-S ESTRUTURAL RÁPIDO should be mixed in small quantities taking into account the paste usage time of 15 minutes.

c) Application

Once mixed, **BETÃO-S ESTRUTURAL RÁPIDO** should be applied immediately and no more water should be added after mixing, or the performance of the product shall be seriously impaired.

BETÃO-S ESTRUTURAL RÁPIDO should be applied in thicknesses greater than 40mm.

Mixing of **BETÃO-S ESTRUTURAL RÁPIDO**

Preparation of substrates

Filling of mould with **BETÃO-S ESTRUTURAL RÁPIDO**



Demoulding



Levelling with floor

d) Restrictions

BETÃO-S ESTRUTURAL RÁPIDO should not be applied directly over a bituminous coating.

BETÃO-S ESTRUTURAL RÁPIDO should not be applied at ambient and substrate temperatures below 5 °C and above 30 °C. It should not be applied on icy surfaces or in the process of defrosting or with the risk of freezing within 24 hours.

Avoid application of **BETÃO-S ESTRUTURAL RÁPIDO** under adverse weather conditions, such as rain, intense sunlight or strong wind. So as to minimize such effects, the work area should be protected with tarpaulins or cloths.

e) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used;
- Water dosage uses in excess of the recommended dosages will change the product characteristics stated in this technical file and may compromise the expected final performance;
- Wash tools with water before the product hardens;
- Do not add any other products to the mortar. **BETÃO-S ESTRUTURAL RÁPIDO** should be applied as it is shown in its original packaging.

5. PACKAGING AND VALIDITY**Packaging**

30 kg paper bags in plasticized pallets of 54 bags.

Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and abundantly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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