

# PRB SCEL VOIRIE

Available as mortar or micro concrete.



FIBRE-REINFORCED & QUICK-SETTING SEALER FOR ROADS & PAVEMENTS

## The +s of PRB SCEL VOIRIE

- + Fast return to use
- + Ideal for sealing road and pavement elements (manholes, pull boxes, etc.)
- + Adjustable handling : can be mixed to a plastic or fluid consistency
- + High mechanical strength
- + Shrinkage-compensated product

**Homologation Orange** \*



\* Mortar version

### PACKAGING

– Paper bag containing 25 kg.

### STORAGE LIFE

– 9 months, protected from frost, heat and humidity.

### CONSUMPTION/USE

– Mortar: 20 kg/m<sup>2</sup>/cm of thickness.  
– Micro concrete: 23 kg/m<sup>2</sup>/cm of thickness.

### COLOUR

– Mortar: Dark grey or black.  
– Micro concrete: Black.



## AREA OF USE

### USES

- Interior and exterior floors.
- Quick sealing of road & pavement elements:
  - Manholes
  - Pull boxes (telephone, fibre optics, etc.)
  - Inspection traps
  - Pre-cast frames
  - Rodding points
  - Street fixtures (signs, posts, benches, etc.).

- Repairing potholes in concrete roads.
- Swimming pool drain traps, pool lights, etc.

### SUITABLE SUBSTRATES

- Concrete.
- Hydraulic binder-based substrate.

### PROHIBITED SUBSTRATES

- Bare tarmac.
- Bare asphalt concrete.

### LIMITS OF USE

- Crumbling surfaces.
- Unstable surfaces.

### APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply to frozen, thawing, hot or damp surfaces. Do not apply to surfaces in full sunlight or during heavy rain and strong winds. Do not apply if there is a risk of frost or freezing temperatures within the next 24 hrs.

## TECHNICAL CHARACTERISTICS

### INGREDIENTS

- Special cements.
- Siliceous sands.
- Specific additives.
- Fibres.

### PRODUCT

#### Mortar

- Grain size (powder): ≤ 4 mm.
- Dark grey or black.
- pH (alkaline): 12.5 ± 0.5.
- Workable life at 20°C: 10 mins max.
- Application thickness: up to 20 cm.

#### Micro concrete

- Grain size (powder): ≤ 10 mm.
- Black.
- pH (alkaline): 12.5 ± 0.5.
- Workable life at 20°C: 10 mins max.
- Application thickness: up to 40 cm.

### PERFORMANCE\*

#### • Setting time

Temperature	Starts to set (± 5 mins)	Completely set (± 5 mins)
at 5°C	40 mins	80 mins
at 20°C	20 mins	30 mins
at 30°C	10 mins	15 mins

#### • Mechanical strength

After	5 °C	20 °C	30 °C
2 hours	≥ 5 MPa	≥ 20 MPa	≥ 20 MPa
4 hours	≥ 10 MPa	≥ 25 MPa	≥ 25 MPa
24 hours	≥ 25 MPa	≥ 30 MPa	≥ 30 MPa
28 days	≥ 45 MPa	≥ 50 MPa	≥ 50 MPa

### RETURN TO USE \*\*

SETRA Category	5°C	20°C	30°C
T4 T5 (low traffic)	4 hrs	2 hrs	2 hrs
T3+ T3- (medium traffic)	6 hrs	2 hrs	2 hrs
T0 T1 T2 (heavy traffic)	10 hrs	3 hrs	3 hrs
TS Tex (exceptional traffic)	Not recommended	4 hrs	4 hrs

\* Data for guidance only - Laboratory values for a plastic consistency obtained with 10x10 cm cubes.  
Powder & Water maintained at test temperature for 24 hours before mixing.

\*\* Waiting time based on plastic consistency.

## UTILISATION

### SUBSTRATE PREPARATION

- Remove a ring of approximately 10 cm of material around the edges of the manhole cover, cutting down vertically to the top of the shaft (ensure a bed of a minimum thickness of 30 mm for sealing).
- Remove any crumbling or non-adherent material.
- Dust and wash the substrate.
- Ensure that the substrate is sound, adherent, stable and resistant.
- Thoroughly moisten the surface, removing any residual water. The substrate must be damp but not dripping wet before PRB SCEL VOIRIE is applied.
- Install formwork if necessary (when using PRB SCEL VOIRIE mixed to a fluid consistency).

### MORTAR PREPARATION

#### Mortar

- Mix a whole bag of mortar with clean water (by hand or mechanically) according to the following ratios:
  - for a plastic consistency: 3.55 to 3.70 litres of water per 25 kg bag
  - for a fluid consistency: 4.05 to 4.20 litres of water per 25 kg bag
- Mix for 2 to 3 minutes until a smooth mixture is obtained.

#### Micro concrete

- Mix a whole bag of micro concrete with clean water (by hand or mechanically) according to the following ratios:
  - for a plastic consistency: 2.6 to 2.9 litres of water per 25 kg bag
  - for a fluid consistency: 3.1 to 3.40 litres of water per 25 kg bag
- Mix for 2 to 3 minutes until a smooth mixture is obtained.

### APPLICATION

- Spread a layer of mortar or micro-concrete (mixed to a plastic consistency) around the top of the shaft (e.g. sealing manhole covers).
- Lay the frame on top of the sealer.
- Align the frame with the road/pavement surface.  
With the frame in place, the sealing layer must be at least 30 mm thick. Do not use shims or wedges.
- Finish with PRB SCEL VOIRIE.  
Compaction with an immersion vibrator is required when using mortar mixed to a plastic consistency.
- Smooth with a trowel to achieve a clean and level road/pavement surface.
- To preserve the colour, do not use a wet sponge to finish the surface.

### PLEASE NOTE:

- A gap of 3 to 5 cm may be left to be filled with PRB ENROBÉ À FROID later on.
- For thicker layers, add 1/3 of dry, non-porous 4/8 mm or 4/10 mm aggregates to the mortar or use the ready-to-use micro concrete version of PRB SCEL VOIRIE.
- The mortar and micro concrete versions are perfectly compatible with each other. The mortar can be used as a top coat (fresh-on-fresh) with a minimum thickness of 30 mm for a smooth or floated finish.

### PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Please read the packaging safety label and safety data sheet before use.
- Please respect the applicable regulations.

Technical Data Sheet - 26 April 2024