

# BRITELINE E20

## WHITE – EXTRUSION/SCREED



DATE: 14/06/2023

ISSUE:04

REV.:02

## TECHNICAL SPECIFICATION



### PRODUCT DESCRIPTION

Briteline E20 is a thermoplastic extrusion/screed product specifically designed for tropical climates, with quick installation and cooling times to minimize traffic disruptions. It can be used as an overlay material to maximize cost effectiveness of renewing road markings and on new road surfaces for 2.0-3.0 mm thickness of the line.

### COMPLIANCE

Briteline E20 is compliant with IS EN 1871 for physical properties of the road markings measured in the laboratory conditions and with IS EN 1436 for road markings performance for road users (CE Marking granted by CSIC, ETA 22/0042 of 07/07/2022, Certificate of Constancy of Performance 1219-CPR-0356, DoP 2022-DoP-01).

Kelly Bros management system is regularly assessed and registered to meet the requirements of ISO 9001: 2015, ISO 14001: 2015 and ISO 45001: 2018.

### Performance Characteristics

#### IS EN 1436

Performance  
Properties  
(In situ)

#### IS EN 1871

Physical  
Properties  
(Laboratory Conditions)

Luminance

**B 4  $\beta \geq 0.5$**

**LF 6  $\beta \geq 0.8$**

Softening point

**SP 4  $\geq 110^{\circ}\text{C}$**

Mixed in glass beads content: **20 %**

Recommended glass beads as drop-on:

**Ecostar 10 TRM SRT GX 10% @ 450g/m<sup>2</sup>**

### Material Characteristics

Flash Point:

**> 230 °C**

Density:

**2.0 – 2.2 g/sm<sup>3</sup>**

Application Temp:

**180 – 200 °C**

Drying time

**1–5 minutos (apr.)**

### APPLICATION AND PREPARATION

Ensure the road surface is dry and clean from dust, dirt, grease, salt or any other contaminants.

Road temperature should be above 5°C.

### PACKAGING AND STORAGE

Material is supplied in 20kg meltable bags, packed onto pallets of 60 bags, 1.2 tonne per pallet. Supply in bulk bags of 500kgs is available upon request.

Finished pallets are stretch wrapped for protection.

Material is recommended to be stored away from direct sunlight and kept dry.

### HEALTH AND SAFETY

Information could be found in the relevant Safety Data Sheet.

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### PROCESS

Extrusion/screed thermoplastic material is mechanically agitated and is thermostatically controlled in a preheater. It is extruded under pressure or screeded onto the road surface through a mould. The adjustable doors of the mould control the width of the line, 50 - 500 mm. The application speed controls the thickness of the line.  
Recommended thickness is 2,0 - 3,0 mm.

### EQUIPMENT

- Daily inspection of equipment is necessary to ensure that it is operable prior to application. Breakdowns of equipment during the application process may cause degradation of thermoplastic materials (if over-heated) and this may result in sections of the work failing to meet the overall specification requirements.
- Continuous routine in process control of all equipment during application is of extreme importance for the assurance of meeting the specification requirements.
- It is essential to keep equipment clean and free of material residue build up particularly at the end of a working day. It is of critical importance to ensure that the material in the pipes is cleaned out at the end of a working day to avoid sedimentation of the material which would hamper the next heating up process.

### RECOMMENDATION

To avoid settlement at the end of the working day the agitators (paddles) must be left on until the material is cooled below 120 ° C.

### WARRANTY

An air temperature of at least 10°C and rising is typically required. Windy conditions may affect ambient temperature and cause material displacement during application.

Material must be applied to the recommended thickness as specified and Kelly Bros (Erin) Ltd recommend various drop on glass beads for application. Bead application should be uniform across the entire line and checked for proper volume, distribution and embedment.

Remember that material temperature and thickness can also affect bead embedment. The material guns must be synchronized with the bead guns to ensure that the entire surface area of the material is properly reflectorized. The positioning of the guns is critical to ensure optimum results and should be calibrated on a daily basis. Inadequate or excessive rates of beads can also reduce the retro-reflectivity of the markings.

Care should be taken to ensure that the reflectivity of the road marking **is not impaired** with the use of mechanical sweepers (wire / nylon brushes). This can damage the beads embedded in material, and lead to a reduced reflectivity of the marking applied on the surface.

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