

Flexiline Technical Data Sheet

Technical Information

1. CHEMICAL PROPERTIES

Flexiline is a thermoplastic preformed road marking containing hydrocarbon resin, polymers, mineral oil, coloured pigments, glass beads (where required) and aggregates.

2. PHYSICAL PROPERTIES

Flexiline is supplied in solid lines or in pre-cut configurations to form letters, arrows and symbols.

3. ENVIRONMENTAL RESISTANCE

Flexiline is resistant to deterioration due to the exposure to sunlight, water, oil, petrol, salt and adverse weather conditions.

4. DURABILITY

When heated correctly with a propane gas torch, Flexiline will conform to the road contours and is capable of fusing with itself or previously applied thermoplastic and any tar based road composition.

5. STORAGE

The markings are to be laid flat and carefully stacked, with no heavy objects placed on top.

6. INSTALLATION

The surface where the markings are to be laid must be clean and dry. Any surface water present should be dried off using the propane torch. Place markings in position and remove plastic film. Hold the gas torch approximately 150mm (6") above the marking and move in a sideways motion, starting from the centre and working towards the edges, until the marking has turned to liquid. (and bubbles for approximately 30 seconds). The marking should be ready for road traffic in approximately 10 minutes. Should the road need to be opened sooner, water may be sprayed onto the markings to speed up the process.

NOTE: (very important)

A tack coat must be applied to: concrete, old or polished asphalt and previously dirty surfaces that have been thoroughly swept prior to applying Flexiline, if a good bond is to be assured.

TECHNICAL SPECIFICATION

Binder Content:	18 – 22%
Glass Bead Content:	Minimum 20%
PIGMENT	
White:	Rutile Titanium Dioxide
Yellow:	Rutile Titanium Dioxide and Lead Chromate
Aggregate, Pigment and Extender:	78 – 82%
LUMINANCE, CIE ‘Y’ VALUE	
White:	Minimum 80%
Yellow:	Minimum 50%
Skid Resistance Value (SRC):	Minimum 55%*
Softening Point, (Ring and Ball)	Minimum 65°C

Flexiline has been formulated from unique blend of heat, UV stable resins and polymers to achieve a balance of properties to satisfy the requirements of the contractor and client. The material meets the requirements of BS EN 1436:1998. (Classes: R2 – B2 – S3).

Flexiline is supplied as symbols, strips or rolls. Due to the polymer mix, Flexiline is very flexible, even at low temperatures. Rolls as supplied, can be unrolled without breakage at temperatures down to 5°C/40°F.

After removing the plastic backing film and placing the thermoplastic in the desired location, (backing film side upwards) gently heat the surface. The blend of polymers ensures that the material readily melts to a low viscosity and ‘wets’ the surface ensuring good adhesion. The temperature at which this is achieved is well below the temperature at which degradation of the polymers will occur. *If initial reflectivity and skid resistance is required, a glass bead and aggregate mix should be applied to the surface at time of application.

The polymers used for Flexiline confer additional bonuses, namely increased adhesion and a marked degree of resistance to petroleum spirit and mineral oils.