



**IRISH TAR**

# LIQUAFIX J

## HOT POURED JOINT SEALANT, TYPE N2

### INTRODUCTION

**Liquafix-J** is a polymer modified bitumen joint sealant for application in joints requiring a Movement Accommodation Factor of 12%.

**Liquafix-J** is a hot-poured joint sealant for horizontal joints on concrete floors, roads, runways and pavements. **Liquafix-J** offers good extension over a wide range of service temperatures with a high resistance to flow and excellent pourability at temperatures well below the maximum safe heating temperature. Because **Liquafix-J** is bitumen based, with a high degree of flexibility, it is recommended to seal joints in bituminous roads, runways, play areas, etc. **Liquafix-J** complies with the requirements of I.S. EN 14188-1. **Liquafix-J** is manufactured in Ireland by Irish Tar and Bitumen Suppliers.

### JOINT SEALANTS

The principle of a joint sealant is to provide an effective seal against the ingress of water or other corrosive substances, while providing sufficient flexibility to withstand the thermal movement of the surrounding surfaces throughout repeated cyclical movement.

In selecting the appropriate grade of joint sealant, the design of the joint must be examined and the total thermal movement determined. Joint movement is normally expressed as a percentage of joint width (Movement Accommodation Factor).

The various international performance specifications set out movement requirements for each sealant grade, and the most suitable material may therefore be chosen.

### APPLICATION

Application may be carried out by hand or by machine. In general, machine installed sealant is pumped through a nozzle at a steady rate, producing a more even distribution of material, less wastage and hence a more successful result. The required machinery is relatively expensive and some contractors, farmers etc. carrying out a smaller work may find hand pouring more economical.

In either case, careful preparation of the joints is vital to ensure adhesion. New concrete should be allowed to cure for 21 days and all dust, dirt, and moisture removed from the joint by means of hot-compressed air and power brush where heavy deposits are present.

To comply with the requirements of I.S. EN 14188-1, the faces of the joint should be primed with the primer recommended by the manufacturer. A key is thus provided to the faces and allowed to cure before application of the sealant. **Liquafix-S**, bituminous solution, as primer has been tested in conjunction with **Liquafix-J** and the combination complies with I.S. EN 14188-1.

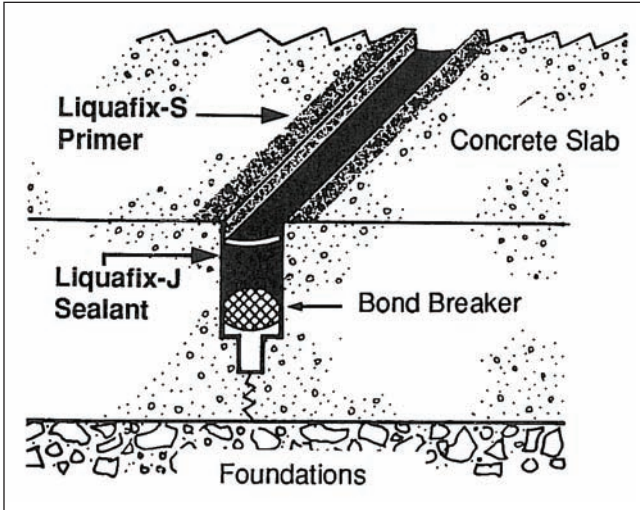
The joints should be primed with **Liquafix-S** solution and allowed to cure before applying the sealant.

Where the joint faces have deteriorated badly, the only successful method of preparation may be to re-cut the joint by means of a concrete saw or concrete router. The "new" joint should be cut back to sound concrete and the preparation continued as outlined previously.



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**BRINGING QUALITY TO THE SURFACE**



← Joint Width mm →

6	10	12	14	20		mm
27	16	14	12	8	7	<i>6</i>
	10	8	7		4	<i>10</i>
	8		6	4	3	
		6	5	4	3	<i>14</i>
				2	2	
			3	2	2	<i>25</i>

↑ Joint Depth mm ↓

**Approximate usage of Liquafix-J based on different joint sizes.**

**Note:** Figures in *italics* give metres of sealed joint per kilogramme of Liquafix-J. Each drum of Liquafix will seal 20 times the figures given. For example, a kilogramme of Liquafix-J will seal 6 metres of a 12mm wide x 14mm deep joint. The complete drum of Liquafix-J will seal 120 metres of this joint size.

**APPLICATION (CONTINUED)**

Joints should be designed so that the total movement due to concrete shrinkage and thermal change does not exceed the Movement Accommodation Factor, which is expressed as a percentage of the minimum joint width.

All joints should be sealed typically 6mm below flush, but this should be varied dependent upon the time of year of application to ensure that the sealant does not protrude above the surface on joint contraction.



**IRISH TAR**

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Irish Tar & Bitumen Suppliers is registered to IS EN ISO 9001:2000 Quality Standard