BASF
The Chemical Company

MASTERFLEX® 815

MASTERFLEX® 815 for limited movement joints and gap filling

Description

MASTERFLEX® 815 is a single component, ready-to-use, spatula or gun applied non-sagging sealant. Based on a modified bitumen carried in hydrocarbon solvent, it cures to form a seal, with excellent adhesion to concrete, brickwork, asphalt and most construction materials.

Primary uses

MASTERFLEX® 815 is ideally suited for sealing and filling gaps on roofs, pointing horizontal chases and for waterproofing membranes and felts.

Advantages

- Sealing around roof service pipes.
- Pointing between brickwork and roof flashings.
- Sealing leaks in gutters and roofing sheets.
- Sealing cracks in asphalt and felt roofing.
- Filling horizontal joints in concrete and asphalt where movement is not expected.
- Concrete duct joints.

Composition

MASTERFLEX® 815 is based on a blend of rubber and high quality bitumens carried in hydrocarbon solvent to assist in ease of application. Black in colour and exhibiting a non slump consistency it cures by solvent release, to form a tough flexible waterproof seal.

Packaging

MASTERFLEX® 815 is available in 20 litre containers.

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Service temperature limits	-20°C to +70°C
Application temperature	10°C to 45°C
Specific gravity (minimum)	0.98 at 25°C
Solids content (minimum)	75%
Flash point (minimum)	48°C
Consistency	Semi-stiff paste
Initial set at 35°C	4 hours
Full cure at 35°C	4 weeks
Movement Accommodation Factor	Up to 8% of the total joint width (± 4% on each side)

Directions for use

Surface preparation

Surfaces must be free from all dirt, dust and loosely adhering materials. Any oil and grease contamination must be removed. Surfaces must be DRY.

Masking

Prior to application of primer and sealant, masking tape is applied to adjacent sides of joints to protect building surfaces.

Priming

Under normal circumstances, priming is not required. However, for very dusty or friable surfaces, it is advisable to apply a coat of MASTERKURE 161. Similarly, for joints subject to continuous immersion, priming is recommended.

Application

By means of a spatula or trowel, remove contents of the can and apply to prepared joint profile. In vertical instances apply from bottom up.

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Ensure sealant fills the entire volume of the joint. Immediately tool the joint with a spatula or trowel to effect total contact with joint surfaces.

After application, smooth and compress the sealant into the joint by using a spatula or putty knife moistened with cleaning solvent. Where masking tape has been employed to keep clean building surfaces, it is advisable to remove it immediately the sealant has been finished (masking tape is stripped off by drawing the tape across the joint).

Curing time

Full cure is normally obtained 4 - 6 weeks after application when complete solvent evaporation has taken place.

Over painting

This can be carried out after full cure has taken place. However, please contact BASF's Technical Dept. on paint systems.

Estimation

A. Joint Depths should not exceed joint width.
B. Minimum joint widths - 6mm.
C. Maximum joint widths - 40mm.

		Joint Width mm							
		6	**10**	**12**	**15**	**20**	**25**	**30**	**40**
Joint Depth mm	**6**	27.70	16.60	13.80	11.10	8.30	6.60		
	8		12.50	10.40	8.30	6.20	5.00	4.10	
	10		10.00	8.30	6.60	5.00	4.00	3.30	2.50
	12			6.90	5.50	4.10	3.30	2.70	2.05
	15				4.40	3.30	2.60	2.20	1.60
	20					2.50	2.00	1.60	1.25

Above values indicate linear metre/litre.

Cleaning

Tools and equipment should be cleaned with cleaning solvent.

Chemical resistance

Occasional spillage:

Dilute acids	Resistant
Dilute alkalis	Resistant
Solvents	Not Resistant
Petroleum fuels	Not Resistant
Lubricants	Not Resistant

Storage life

12 months in sealed undamaged containers when stored in cool dry conditions.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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