CE
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EN 15651-1, -4

Flowflex

Product sheet

Product description

Flowflex is a one-part, non-sagging, elastic sealant based on hybrid-polymers.
After total curing the product is permanently elastic whilst still maintaining a high mechanical strength.

Uses

Floor joints in pedestrian walkways, warehouses, parking areas, can be used in both indoor and outdoor applications. Compatible with Flowcrete floor finishes.

- Isocyanate & silicone free.
- Fast curing.
- Fast tack-free time.
- Permanent elasticity.
- High mechanical strength and good abrasion resistance.
- Excellent resistance to weathering, aging and UV exposure.
- Chemically neutral, non-corrosive, low odour.

Note: Contact with bituminous or tar containing surfaces can lead to discoloration.
Staining can occur when used on natural stone.
As substrates can have a wide variation of properties, it is recommended to always perform sufficient testing to ensure good adhesion, etc., can be achieved.

Environment & Health

Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken. For more information, please refer to the safety datasheet.

Preparation

Joint faces should be clean, free of dust and substances likely to impair adhesion.
Loose friable material must be removed and arises made good.
Remove loose particles on concrete and plaster joints using a brush.
Metal surfaces should be degreased with solvent.
For a neat finish use masking tape for the joint edges.
Clean powder coated surfaces before application.
Perform preliminary tests.

Backfilling

If necessary to achieve the optimum joint cross section back fill the joint with closed cell polyethylene backer rods.

Application

Apply equally and free of air bubbles directly out of the cartridge onto the surface or into the joint.
Smooth surface, if necessary, within the film formation time.
If masking tape has been used remove it immediately after smoothing.

Application temperature

The recommended substrate temperature is 15 - 25°C, but no less than 5°C, no more than 40°C.
The temperature of the substrate should exceed the “dew point” by 3°C during application and hardening.
Temperatures should not fall below 5°C in the 24hrs after application.

Curing time (at 23°C, 50% RH)

Film formation approximately 35-40 minutes.
Cure rate 3 mm per first day.

Cleaning

For surfaces and tools that are contaminated by Flowflex, please use a suitable proprietary cleaner.
Totally cured material can only be removed mechanically.

Colour	**Solids content**	**Density**
Black & Concrete Grey (close to RAL 7023)	Approx. 100 %	1.5 kg/l

Storage

12 months in unopened pack. Storage temperature between 5°C and 25°C.
Protect from weather and moisture/contaminant ingress.

Packaging

The product is supplied in a cardboard box containing 20 x 600 ml sausages.

Technical Information

Property	**Result**	**Test Method**
Consistency	0 mm, non-sagging	EN 27390 20 mm profile
Shrinkage (by volume)	3%	DIN 52451
Modulus at 100% elongation	approx. 1.0 N/mm2	DIN 53504 S2
Tensile strength	approx. 1.7 N/mm2	DIN 53504 S2
Elongation at Break	approx. 300%	DIN 53504 S2
Shore A Hardness	35	DIN 53505
Movement Capability	25%	ISO 11600
Classification	25HM	ISO 11600
Temperature Resistance	-40°C - +90°C	

Substrate Adhesion Table	
No Primer necessary	*Notes*
Aluminium	Anodized aluminium*
Glass	Concrete*
Galvanized metal	Stainless steel*
Iron	
Tiles	Tiles, back side**

The above recommendations refer to applications with normal weathering load.
Due to the numerous possible variations of substrates they only can be used as a guide

* Tests have shown that sometimes a primer may be needed. This depends on the real loads in the application, the exact composition of the neighbouring components as well as on the structure of the adhesion surfaces. This cannot be predicted, therefore we recommend preliminary adhesion tests if no primer is to be used.

** Primer required.
Flowflex is not recommended for substrates like polyethylene, silicone, butyl rubber, Neoprene, EPDM , bituminous or tar containing surfaces as well as on natural stone.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

2015.02, 01 UK

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