

MASTERFLEX[®] 490

A high modulus epoxy polyurethane joint filler for industrial flooring applications

Description

MASTERFLEX 490 is a semi-rigid; two component epoxy polyurethane joint filler. Self leveling, MASTERFLEX 490 offers lasting support to joint arrises & provides an abrasion and puncture / pick resistant seal for non movement joints within Industrial flooring type applications.

Note – This product is for internal floor joints only.

Features

- Good chemical resistance
- High Shore 'A' hardness
- 100% solid content
- Cut and pick resistant
- Primer less application
- Provides support to joint arrises reducing risk of joint spalling.

Where to use

- Crack control and tied construction joints in concrete floors subject to small wheeled heavy traffic
- Sealing of static cracks in floors
- Joint repair filling
- Resealing of older floors
- Horizontal floor joints

Do not use

- For exterior applications
- With compressible backing cords
- In joints subject to movement greater than 5%
- In new floor applications where the concrete is less than 90 days old – Consult BASF technical Dept for further information - "New" floor joint should be initially sealed with Sonolastic NP2 / SL 2 until drying shrinkage has ceased (\pm 12 months)

- In joints that are to "falls" – Contact BASF for application advise.

Packaging

MASTERFLEX 490 is available in 5.85kg (4.5 litres) kits.

*Typical properties after 7 days @ 25°C

Mixed density @25°C	1.30
Pot life @25°C	>60 minutes
Cure time @25°C	
Initial	24 hours
Final	7 days
Application temperature	+15 to 40°C
Tensile strength (ASTM D638)	5.8Mpa
Elongation at break % (ASTM D638)	35
Shore A Hardness (ASTM D2240)	80-100
Shore D hardness (ASTM D2240)	35-45

How to apply

Surface preparation

1. Concrete MUST be at least 90 days old to allow for initial drying shrinkage to take place.
2. Joint surfaces must be structurally sound, dry, clean, free of dirt, moisture, loose particles etc that may otherwise adversely affect the bonding of MASTERFLEX 490 to the concrete.
3. Clean the vertical joint faces by grinding, sandblasting or wire brushing leaving a clean dust free surface.
4. Apply 50mm wide masking tape to both sides of the joint

Mixing

1. MASTERFLEX 490 is a two component system which requires thorough mixing before use. Following joint preparation, combine and thoroughly mix base & reactor components together using a slow speed drill and suitable mixing spiral

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2. Pour the contents of the reactor pack into the base container and mix slowly for 2 minutes until streak free.
3. Scrape down sides of container and mixing spiral and then re mix for a further 2 minutes.
4. Keep mixing spiral well below the surface of the material during mixing to prevent air entrapment.

Application

1. Pour the mixed MASTERFLEX 490 material into a spouted container / jug and pour into the joint ensuring that the joint is slightly overfilled.
2. Check for any settlement of the joint filler and top up where necessary whilst it is still liquid.
3. Clean all tools and equipment with Solvent # 2 before the material hardens. Cured material will require mechanical removal.
4. Allow the applied joint filler to cure overnight completely traffic free.
5. Remove masking tape and using a very sharp blade cut back all excess cured material flush with the floor surface. Surface of excess MASTERFLEX 490 can be softened by slight warming with a gas blow torch if necessary.

For best performance

- Do not install MASTERFLEX 490 at temperatures below 15°C.
- Do not use MASTERFLEX 490 in expansion joints.
- Do not use MASTERFLEX 490 in new floor applications (Contact BASF for advise) Floors should be a minimum of 90 days old before using MASTERFLEX 490.

- The sooner MASTERFLEX 490 is installed after concrete placement, the greater the risk of adhesion loss or splitting from shrinkage or settlement. To repair simply clean and refill any tears with MASTERFLEX 490 and allow to cure.
- Not designed for exterior use.
- Not intended for constant immersion.
- Do not install over a backing cord or any compressible filler.
- Clean dry Silica sand can be used to seal cracks at the bottom of joints.
- Minimum joint filler depth to be 25mm.

Colour

Grey - Other colours available by special order and minimum quantities.

Shelf life

6 months from date of manufacture when stored correctly.

Storage

Store in unopened containers in a dry, cool and clean area out of direct sunlight. Protect from prolonged exposure to high temperatures and freezing.

Application temperatures

High ambient temperatures reduce pot life – store in chilled containers when temperatures are high.

Health and safety

See separate MSDS for MASTERFLEX 490 Base & Reactor.

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* Properties listed are based on laboratory controlled tests.

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