



QM 85 Flexible Control Joint Filler

Description

QM 85 is an advanced, self leveling, non staining, 100% solids, two component, 1:1 ratio, joint filler designed for concrete with low to medium thermal cycling which cures rapidly and consistently in applications ranging from -20°F to 130°F, is tack free in 3 minutes and opened to vehicle or foot traffic in 1 hour.

Applications

QM 85 is designed specifically for industrial floor applications which receive heavy vehicle traffic such as forklifts or steel wheeled carts. Use QM 85 to fill interior floor joints on horizontal concrete. It is slightly flexible allowing small slab movement yet rigid enough to protect vertical joint edges from damages by extreme loading from heavy wheeled equipment. Excellent choice for: Industrial warehouse floors, big box stores, cold storage facilities, airport hangers, food processing facilities and manufacturing plants.

Advantages

QM 85 is 100% solids, meets USDA and FDA requirements, meets USGBC LEED® Criteria IEQ4.1, contains no VOC's, can be polished without smearing, can be tinted to any color, it is odorless, and remains flexible even in cold temperatures.

Application

Joints must be clean, sound, and dry. Remove all bond breakers such as dust, grease, curing compounds, waxes, foreign particles and disintegrated materials. For bulk mixing, use a one to one ratio pump. Only component "B" side needs to be stirred before being loaded into pump. Do not allow material to reside in static mixing head or nozzle for more than 45 seconds or nozzle blockage may result.

General Information

QM 85 is available in 22 oz. & 56 oz. cartridges and 10 gallon kits. Shelf life is 1 year in original unopened containers stored between 75°F to 85°F. Do not store this product below 55°F or above 85°F. QM 85 can be tinted to match any color, or in a standard concrete grey. It is pourable and self-leveling with an approximate pot life of 1 – 2 minutes (4 ounces).

Limitations

QM 85 is not designed to seal cracks under hydrostatic pressure, however it is a vapor barrier after cure. The minimum age of concrete must be at least 28 days, but it is highly recommended to wait as long as possible before installation to allow for maximum shrinkage of concrete slabs. QM 85 is limited in its elongation properties and is not designed to be used in moving cracks. Exposure to ultraviolet light may cause slight discoloration, however the physical properties are unaffected.

Clean Up

Cured QM 85 is inert and may be disposed of without restrictions. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure and then disposed. Cured materials may be stripped or peeled from plastic tools and containers.

Safety and Handling

All personnel should read and understand product Material Safety Data Sheets provided. Long sleeved overall or disposable overalls, rubber gloves, splash shields, rubber or leather boots should be worn. Do not use ear high heat or open flame. Do not take internally. Keep out of the reach of children.

First Aid

Remove any contaminated clothing. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician immediately. For respiratory problems, remove person to fresh air. For skin contact, remove epoxy immediately with a dry cloth or paper towel. Wash area of contact thoroughly with soap and water. Solvents should not be used because they carry the irritant into the skin. Wash contaminated clothing prior to re-use. Cured products are innocuous.

Warranty

QuestMark warrants its products to be free of manufacturing defects will meet QuestMark's current published physical properties when applied in accordance with QuestMark's directions and tested in accordance with ASTM and QuestMark's standards. There are no other warranties by QuestMark of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. QuestMark shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.

Physical Properties

Color	A+B	Amber/Yellowish
Viscosity (mixed)		Self Leveling
Mix Ratio (by volume)		1:1
Pot Life 100 grms at 77°F		1 min
Tack Free (thin film) @ 77°F		3 min
Initial Cure		15 mins
Final Cure		60 mins
% of Elongation	ASTM D-412	190 min
Tensile Strength, psi	ASTM D-412	960 min
Shore "A" Hardness	ASTM D-2240	85-87 A
Tear Strength, pli, Die C	ASTM D-624	195 min

22 oz. Cartridge Coverage Rate

Width	¼"	½"	¾"	1"	1-1/4"	1-1/2"
¼"	52.9					
½"	26.5	13.2				
¾"	17.6	8.8	5.9			
1"	13.2	6.6	4.4	3.3		
1 ¼"	10.6	5.3	3.5	2.6	2.1	
1 ½"	8.8	4.4	2.9	2.2	1.8	1.5
1 ¾"	7.6	3.8	2.5	1.9	1.5	1.2
2"	6.6	3.3	2.2	1.6	1.3	1.1
2 ½"	5.3	2.6	1.8	1.3	1.1	.87
3"	4.4	2.2	1.5	1.1	.87	.73

Chemical Resistance

Test Procedure; ASTM D-1308 @72°F

R=Recommend

RC=Recommend Conditional =some swelling or discoloration

N=Not Recommend

1=Some discoloration only

<u>Chemical</u>	<u>Result</u>
Acetic Acid 10 %	R
Acetone	RC
Battery Acid (Sulfuric Acid)	RC
Brake fluid	R
Chlorine (2,000 ppm in water)	R
Citric Acid	R
Gasoline	R
Hydraulic Oil	R-1
Methanol (5%) Gasoline	RC
Motor Oil	R-1
Toluene	RC
Vinegar	R
Water	R
Xylene	R