

QUICKFILL X-PRESS 6000

REPAIR POLYMER

1. CHARACTERISTICS

Quick Fill X-press 6000 is a rapid setting, high strength, ultra-low viscosity concrete repair polymer. This two part polymer system is designed for rapidly repairing and rebuilding deeply spalled or damaged concrete surfaces, broken control joints and repairing cracks in concrete.

QuickFill Express 6000 sets rapidly even in cold conditions.

Quick Fill X-press 6000 is an aromatic polymer.

Quick Fill X-press 6000 repairs can be put back into service minutes after installation. **Quick Fill X-press 6000** is ideal for repairing damaged concrete in parking decks, warehouses, cold storage facilities or any badly damaged concrete floor. **Quick Fill X-press 6000** is especially useful in applications where "Down-time" is critical such as 24 hour facilities.

Unique Characteristics:

Quick Fill X-press 6000 is very low in viscosity allowing for deep penetration of the concrete providing a superior "lock" to the concrete than traditional epoxies. **Quick Fill X-press 6000** does not become brittle over time and will cure quickly in a wide range of temperatures including temperatures **below zero in just minutes**.

Quick Fill X-press 6000 is formulated to be extremely fast setting, reducing working time, man hours and operating down-time.

Quick Fill X-press 6000 is ideal for repairing damage to concrete surfaces prior to overcoating. The product can be ground smooth and when properly prepared and coated will not be seen through additional top coats.

2. FEATURES

✓	Satisfies OSHA Floor facility safety and surface conditions for fork lift operators
✓	Rapid Floor Repair minimizes forklift and cargo accidents
✓	Increases productivity by providing smooth operating surfaces at any temperature
✓	Reduces facility "down-time" and maintenance costs due to rapid installation and cure times.
✓	Meets USDA requirements
✓	Fuel resistant
✓	Return to full service and "forklift ready" in 10-20 minutes
✓	High Strength, very low viscosity, penetrates and locks into concrete
✓	Penetrates fine fractures in concrete.

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3. TYPICAL USES

- ✓ All concrete spall / Damage repair
- ✓ Rebuilding Control Joint side walls, floor repairs
- ✓ Knitting cracked concrete with rebar
- ✓ Shallow spalls on warehouse floors and bridge decks
- ✓ Cold Storage and warehouse / factory thresholds
- ✓ Car park and loading Decks
- ✓ Loading docks

4. PROCESSING PROPERTIES	DATA
Mixing Ratio (A:B)	Comp. A to Comp. B = 100 : 100 per volume
Recommended thickness [mm]	n.a.
Numbers of layer	n.a.
Gelification time at 20°C [min.]	1 - 2
Tack.Free-Time at 20°C [min.]	5 - 10
Hardness/Curing at 20°C	1 h: 80 – 90% 24 h: nearly 100%
Temperature range for application (ambience) [°C]	-10 - +50
Temperature range for application (substrate) [°C]	0 - +50
Material Temperature of both components [°C]	> 20
Maximal relative air humidity for application [%]	95 - 99
Pay attention to the dew point limit	min. 3K > DP (dew point)

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5. PHYSICAL PROPERTIES	DATA	
Chemical Base	-	Comp. A: MDI-Prepolymer Comp. B: Polyetheramine-Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	A: 2.5 ; B: 4,5
Solids content	DIN EN 827 / ASTM D-2697	70%
Colour	-	Grey
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 20 Comp B: 20
Density [g/cm³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,02 ± 0,02 Comp. B: 1,05 ± 0,02
Density [g/cm³]	EN ISO 1183 / ASTM	1,03 ± 0,02
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	≥ 20
Elongation at break [%]	ISO 37-2005 / ASTM D-638	App. 8%
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	70 ± 5
Pull off strength [N/mm]	ISO 813 / ASTM	Steel: ≥ 6 Concrete: ≥ 1,5
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 60 Dry: 130 Peak temperature dry: 150
Storage conditions [°C]	DIN EN 12701 / ASTM	10 – 30 (in closed original drums, stored at dry and well ventila- ted place; beware of freezing)
Shelf life	-	Approximately 12 months

*) All data measured at 23°C @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account.

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6. APPLICATION NOTES

Preparation:

Concrete Must Be Dry – less than 5% moisture content. Clean the area to be repaired and remove all unsound concrete, dust and debris. Prepare surface using a dry diamond blade or a twisted wire wheel for spalls. Cut perimeter of damage with dry diamond blade to form a key-way. Chase and open cracks to provide some depth to the crack to allow for quick traveling of the product deep into the crack.

Product mixing:

Mix **Quick Fill X-press 6000** at a 1:1 ratio. Use a jiffy mixer or other multi bladed mechanical mixer only. No paddle mixers. Mix part A and B mechanically at high speed for approximately 30 seconds. Use mixed product as a primer for the bottom of the repair.

Grout Repair: One part of mixed (A&B) product to two parts select sand, i.e., 1 part of A + 1 part of B added to 2 parts of sand. Blend mixed product into sand quickly. Mix product and sand for another 30 seconds and immediately pour into the prepared and primed application area. Work into the repair area quickly. Screed to finished grade and allow to set.

Allow product to set and grind using a grinder fitted with a fine grit wheel. Work in circular motion to grind smooth to finished grade. Seal the surface using **QuickFill Express 6000** neat with no sand.

Limitations:

Do not use on wet surfaces or expose part A to moisture. This product is moisture sensitive and should not be applied to wet surfaces. This product is not intended as a joint filler. If used as a joint filler thermal cycles may cause cracking along the sides of the joint. **QuickFill Express 6000** may bond damaged slabs together and may stop movement. **QuickFill Express 6000** is not intended for use where substrate movement is required.

Store **QuickFill Express 6000** away from direct sunlight in a cool, dry location, protect from heat. The reactivity of **QuickFill Express 6000** will be faster in hot conditions and slower in cold conditions. To avoid pre-mature cross linking avoid using product that is hot.

7. FORM OF DELIVERY

Please see our price list for respective packaging units.

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