TECHNICAL DATA SHEET

PIT-FIX

Fast setting road repairing mortar, sets in 15’

QUALITY CONTROLLED CE EN 1504-3

ACCORDING TO EUROPEAN STANDARD EN 1504-3 R3 DURO STICK

■ PROPERTIES

Fast setting, fiber-reinforced cement mortar, with superior resistance against compression, impact and vibration. Its formula consists of selected coarse aggregates and a mixture of specialized cements, making it adhere powerfully to both asphalt and concrete. It remains workable for about 7 minutes, and hardens in just 15 minutes. Depending on the weather/ambient conditions (temperature-humidity), it develops early high strengths within 1-3 hours, when common mortars need at least 24 hours to obtain equal strength.
Classified PCC R3 as concrete repair product per EN 1504-3.

■ APPLICATIONS

PIT-FIX is ideal for repairing minor or major damage to asphalt or concrete roads, but also for the repair of core (road/concrete) samples after the road quality inspections are completed. It is also used in parking lots, courtyards of buildings (commercial spaces, schools, hospitals, etc.). Necessary during the winter months, when the municipalities do not recommend any pothole repairs with tar based materials, due to the continuous and frequent rainfall.
Apply PIT-FIX under any weather conditions, even under freezing conditions. It is suitable for road repairs, after utility crews (telecom, electricity, and water) complete their work. Repair around storm drains, manhole covers and road excavation sites.
It is also ideal for mounting road signs and very effective for installing metal posts or steel angles when installing wire fencing. It is recommended for gap filling on roads due to vehicle traffic and in between railroad rails.

■ USE

1. Surface preparation

Empty any standing water from the potholes, but soak them if they are dry. Potholes deeper than 15cm, can be filled with gravel or stones first. This practice will reduce material consumption. Continue

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by covering the holes with PIT-FIX, at a minimum thickness of 10cm.

2. Application
In a bucket or mixing tub of at least 20lt capacity or even near the pothole/puddle, pour 25kg mortar in 5,0lt water, mix with a shovel or gauging trowel and empty into the puddle. Compress the product well. In less than one to three hours, depending on the weather conditions, areas covered with PIT-FIX are available to traffic and any embedded posts, whether for signage or fencing, can be exposed to stresses and continue the work.

■ ATTENTION
Do not mix the product with additional water once it starts to set, because it will lose its mechanical strengths.

■ CONSUMPTION
2kg PIT-FIX will fill a volume of 1lt.

■ STORAGE
Store in the factory sealed packages, in dry and shaded places, for 12 months from production date.

■ SAFETY DIRECTIONS
The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

■ PACKAGING
Paper bag of 25kg on 1.500kg pallet

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TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)	
■ **Form - Color**	Fast setting cementitious mortar - Gray
■ **Bulk density of dry mortar**	1.40±0.05kg/lt
■ **Bulk density of fresh mortar**	2.00±0.05kg/lt
■ **Maximum grain size**	5mm
■ **Mixing ratio**	5.0lt of water per 25kg mortar
■ **Application temperature**	From +5°C to +30°C
■ **Temperature resistance**	From -30°C to +200°C
■ **Pot life**	7 minutes
■ **Shrinkage per ASTM C596**	Negligible
■ **Resistance to moisture and frost**	Excellent
■ **Chloride ion content per EN 1015-17**	≤ 0.05%

PRODUCT PERFORMANCES	
■ **Flexural strength, per EN 12190, in:**	
• **28 days**	≥ 6.00 N/mm²
■ **Compressive strength, per EN 12190, in:**	
• **1 hour**	≥ 4.50 N/mm²
• **24 hours**	≥ 18.00 N/mm²
• **7 days**	≥ 28.00 N/mm²
• **28 days**	≥ 40.00 N/mm²
■ **Adhesion to concrete per EN 1542**	≥ 1.50 N/mm²
■ **Elastic modulus per EN 13412**	≥ 15 GPa
■ **Carbonation resistance per EN 13295**	Yes
■ **Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:**	
• **50 freeze-thaw cycles**	≥ 1.50 N/mm²
• **30 storm cycles**	
• **30 dry thermal cycles**	
■ **Capillary water absorption per EN 13057**	$w \leq 0.50 kg.m^{-2}.h^{-0.5}$
■ **Reaction to fire**	Class A1

NOTE: Where 1N/mm²=1MPa