Denka

Denka Quickset B120

Formerly known as Estop Sdn Bhd

Ultra-quick hardening additive

Description

Denka Quickset B120 is Ultra-quick hardening additive comprising a mixture of powdered ordinary Portland cement and calcium sulfo aluminate; and it is most suitable for emergency works where construction time is limited. **Denka Quickset B120** is able to be designed with local sand, aggregate and water. The target setting time is 120 min.

Uses

Emergency construction works as road, bridge, airport, railway, bridge, harbors.



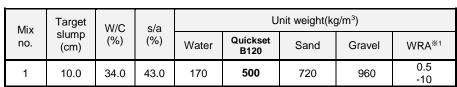
Repairing for expansion joint of Bridge

Advantages

- High early strength (20~28N/mm² in 6 ~ 8 hours)
- Excellent hydration activity
- Achieved of good initial strength
- Good cost performance than resin concrete
- It can be applied to wet conditions

Mix Proportion and Technical Data

• Standard Concrete Mix Proportions (Arbitrary Values)



※1.WRA: Water reducing agent

• Concrete Physical Properties (at 30 °C)

Mix	Handling time	Compressive strength (N/mm²)							
no.	(minutes)	inutes) 6h 8h		Day 1	Day 7	Day 28			
1	>90	>20	>28	>40	>45	>50			



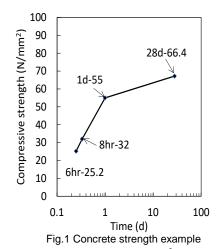
Repairing for apron of Airport



Repairing for tollgate of high way

Packing Size and Yield

Denka Quickset B120 500 Kg / Bulk bag	
Delika Quickset B120 500 kg / Bulk bag	
1000 Kg / Bulk bag	



Mortar Mix Proportions (Arbitrary Values) and Mortar Physical Properties(at 30 °C)

	Miss	Cement	Flow	Unit amount (kg/m³)		Handling	Compressive strength (N/mm²)					
	Mix no.	to sand ratio	value (mm)	Water	Quickset B120	Sand	time (minutes)	6h	8h	Day 1	Day 7	Day 28
	1	1:1.5	200±20	267	786	1179	>90	>20	>28	>40	>50	>55



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Application Instruction

Surface Preparation

Concrete surfaces should be clean, sound and free from oil, grease, laitance and loosely adhering particles.

Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

All absorbent surfaces must be well saturated with clean water, but be free of any surface water or puddles prior to the application of **Denka Quickset B120**.

Mixing

- (1) Pour aggregate and water into the concrete mixer. WRA and D500 setter was mixed in water. Mixing is 1 minute after pouring the water.
- (2) Add the Denka Quickset B120 into the concrete mixer while turning off the power of the concrete mixer.



(3) Mix the concrete mixture until homogenous. Approximately about 4 minutes.



(4) Scrap the material around the concrete mixer while power off the mixer if necessary



(5) Place the concrete onto the desired area and use the concrete vibrator for compaction.



(6) Level the concrete using the trowel for finishing. Carry out curing until a predetermined time. It is recommended to used curing compound (Eg: Estocure R90) during the curing process.





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Cleaning

Wash all equipment with water after used.

Technical Support

Denka Construction Solutions offers a technical support package to specifiers, end-user and contractors, as well as on site technical assistance.

Storage

Denka Quickset B120 has a shelf life of 10 months in unopened containers, kept in a dry store. In high humidity locations, the shelf life may be reduced.

Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Take note that hardening time may be extended when using DENKA Quickset B120 in the milk form.
- Use ASAP once mixed as the mixed cement will rapidly harden
- Wear protective gear (goggles, mask, gloves, and rubber boots) while handling the product. Do not dispose of the product in drains.
- If any part of the body comes into contact with DENKA Quickset B120, wash copiously with water as it is alkaline.
- Once opened, the product should be used up completely.
 Otherwise, reseal for storage.
- The product should be stored in a dry area, indoors, and out of direct sunlight.
- For further information, please contact Denka.

Additional Information

Denka Construction Solutions manufactures and offer a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

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