



QUICSEAL 532HD

Product Name

Fast Set Screed HD

Description

QUICSEAL 532HD Fast Set Screed is a single component rapid-setting, polymer-modified cementitious mortar consisting of a blend of powders and graded aggregates and special additives to achieve rapid strength gain.

When mixed with water, QUICSEAL 532HD becomes a high strength, semi-flowable mortar and is easily applied by trowel.

The cured mortar is durable and weather resistant and has excellent adhesion to concrete substrates. Its polymer modification provides good resistance to water, abrasion and impact.

QUICSEAL 532HD is ideal for use in heavily vehicular trafficked areas where a rapid return to service in 4 hours is critical.

Advantages

- Early strength gain – significant reduction in downtime
- Single component system – user friendly
- High resistance to abrasion and impact
- Excellent adhesion to concrete
- Low shrinkage
- Chloride free

Typical Uses

QUICSEAL 532HD is ideal for forming new reinstatement mortar on new or existing slabs in interior or exterior repair where fast drying high strength mortars or screeds are required to receive high volume pedestrian or vehicular traffic in a short time.

Such applications include:- Airport runways, driveways, concrete floors & pavements, bridges, joint repairs, bridge nosing, seaports, factories, loading bays, parking decks, carpark ramps, bus bays, parking garages etc.

Surface Preparation

The substrate must be roughened, structurally sound, clean and free from any loose dust, oil, grease or other contaminants. Remove defective and unsound substrate. It is recommended that edges must be cut back to at least 10mm to avoid feather edging.

Saturate the prepared substrate thoroughly with clean water and any excess removed prior to installation of QUICSEAL 532HD.

Mixing

Sufficient labour and materials should be worked out and prepared prior to installation of QUICSEAL 532HD.

For Small Quantities

QUICSEAL 532HD may be mixed using a hand held mechanical mixer.

Pour 50% of the required amount of water into the pail for mixing followed by 50 % of QUICSEAL 532HD. Next, pour the remaining amount of water & add the balance of QUICSEAL 532HD and mix for approximately 3 minutes until a lump free homogenous consistency is obtained

For Large Quantities

QUICSEAL 532HD may be mixed using a pan mixer, continuous mixer.

Pour the required amount of water into the mixer for mixing followed by QUICSEAL 532HD. Mix for approximately 3 minutes until a lump free homogenous consistency is obtained.

Ensure that mixer is washed thoroughly before the next batch.

Application

Discharge the mix and spread with a trowel to the required thickness.

A minimum thickness of 10mm is recommended. For areas where thickness is above 40mm, it is desirable to add clean, washed, 10mm -20mm aggregate to the mix. The quantity of aggregate to be used will depend upon particle size and grading, but typically 10 to 12kg of 10 – 20mm aggregate may be added to each 25kg bag without significant loss of workability. Consult QUICSEAL technical department for further information.

In between 2 casts, it is recommended that steel rods (200 –300mm long and 4-7mm in diameter) be inserted into the finished edge of the screed. They should be 20 – 30 mm apart to avoid cracking when work is resumed.

Avoid direct sunlight. Substrate should not be hot during placing. QUICSEAL 532 HD should be struck off to the correct level and finished with steel trowel to fully close the surface. A textured surface can be achieved using a suitable roller or brush. The completed surface should not be overworked.

Curing

Rapid moisture loss from the exposed surface may result in plastic cracking as well as excessive dusting in later age. QUICSEAL 532HD must be cured within 15 minutes from time of placement with wet hessian or cure with QUICSEAL 507 CURE-SHIELD WB curing compound.

Technical Data

PROPERTIES	RESULTS
Appearance	Grey Powder
Mixed Ratio (Water : Powder)	1 : (7.1 - 8.3)
Mixed Density	2.2 ± 0.05
Pot Life	20 - 30 mins
Compressive Strength (ASTM C109:1992) *	
@ 2 hours	20 N/mm ²
@ 1 day	27 N/mm ²
@ 3 days	38 N/mm ²
@ 7 days	42 N/mm ²
@ 28 days	51 N/mm ²
Flexural Strength (ASTM C348:1995) *	
@ 28 days	8 N/mm ²
Coutinho Ring Test *	No crack
Ready for Foot Traffic	1 - 1 1/2 Hours
Ready for Vehicular Traffic	>4 Hours depending on degree of traffic

Note: * Tested at Water/Powder Ratio = 0.12

Packaging

QUICSEAL 532HD is available in 25kg bags.

Coverage

2kg per m² per mm thickness.

Storage

The shelf life of QUICSEAL 532HD is 6 months when stored unopened, and kept in a cool and dry place.

Health & Safety

Avoid eye contact and unnecessary skin contact as the product is alkaline. Gloves, goggles and dust mask should be worn. Avoid inhalation of dust during mixing. Wash thoroughly after handling product. In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

Important Notes

The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for use by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact QUICSEAL.

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