TECHNICAL DATA SHEET

HYDROPRUFE EP

High Performance Waterproof Epoxy Grout



PREMCRETE

HYDROPRUFE EP



DESCRIPTION

HYDROPRUFE EP is a 3-component formulation which mixes to produce a fluid grout with excellent mechanical properties and is impervious to water and ground gases. It is suitable for placement in thicknesses from 5mm to 50mm. Once hardened the grout processes excellent chemical resistance and remains unaffected by freeze-thaw cycles.

USES

HYDROPRUFE EP is used for filling voids and gaps which require the use of a waterproof structural grout. Applications include reinforcing bars grouting gaps between concrete and steel, grouting beneath base plates and as a general-purpose waterproof grout to fill voids between incompatible substrates.

ADVANTAGES

- Very high compressive and flexural strength
- Rapid strength gain
- Excellent chemical resistance
- Excellent bond to a variety of construction materials
- Excellent resistance to water and ground gas

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Light Brown
Pot Life @ 20°C	N/A	25 minutes
Pot Life @ 10°C	N/A	40 minutes
Density	N/A	2080 kg/m^3
Compressive Strength @ 20°C	N/A	1 day @ 80 MPa 7 days @ 90 MPa
Flexural Strength	N/A	7 days @ 20°C: 36 MPa
Tensile Strength	N/A	7 days @ 15 MPa
Application Temperature	N/A	During application:+5°C to +30°C
	N/A	In service: -20°C to +40°C
Resistance to Water	N/A	10 bar

HYDROPRUFE EP

INSTALLATION PROCEDURE

Surface Preparation
Remove surface laitance from concrete and all loose deleterious material, dust, oil, and grease to achieve a sound substrate. Steel surfaces should be free from mill scale and rust. Surfaces to be grouted should be free from standing water and dry to touch. Formwork should be formed around the grouting area and lined with a debonding membrane or agent to prevent adhesion of the grout to the shutter.

Mixing
Pour the HYDROPRUFE EP RESIN and CURING AGENT Components into a clean mixing vessel and mix with a slow-speed paddle mixer until homogenous. The FILLER Component should then be gradually added and blended for a further 2 minutes until an even consistency is achieved. Prevent air entrainment by keeping the mixing head below the surface level of the grout whilst mixing.

Application
The mixed grout should be left to stand for 5 minutes prior to placement, to allow trapped air within the mix to be released. The grout should be placed continuously into the work area from one side only. The mixed grout should be placed within 30 minutes. HYDROPRUFE EP is suitable for placement in thicknesses between 5mm and 50mm. For greater depths then the EP70 or EP140 variants should be used. Allow the grout to set fully before removing the formwork.

Equipment Cleaning
Equipment should be cleaned immediately using PREMCRETE SOLVENT CLEANER.

PACKAGING & COVERAGE
Pack Size
26kg composite pack.
Yield
A 26kg pack will yield 12.4l of mixed material.



STORAGE & SHELF LIFE
HYDROPRUFE EP should be stored in dry cool conditions at temperatures between 5°C and 30°C.
When stored in unopened containers, HYDROPRUFE EP has a minimum shelf life of 12 months..

HEALTH & SAFETY
See separate Material Safety Data Sheet.

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