

ULTRAFINE - Rigid Water-Reactive Polyurethane Resin

DESCRIPTION

ULTRAFINE is a solvent-free, non-toxic, single-component water-reactive polyurethane injection resin. It reacts with water to form a rigid hydrophobic and chemically resistant foam that becomes inert when cured.

COMPOSITION

RESIN - polyurethane prepolymer (MDI-based)
ACCELERATOR - alkylamine accelerator

APPLICATION

ULTRAFINE is a low-viscosity polyurethane resin used for soil stabilization, tie-back anchors, and artificial rootpiles. When used for soil stabilization, it produces a rigid conglomerate that encapsulates the grains of soil.

The reaction mechanism releases carbon dioxide gas, thus reducing apparent viscosity, and enabling fine silts to be penetrated independently of pump pressure. Due to the expansive foaming reaction, soil penetration is superior when compared with “passive” non-foaming grouts.

The reaction time can be controlled by varying the accelerator dosage from 1% to 10%, depending on site conditions.

CHARACTERISTICS

Component:	<u>RESIN</u>	<u>ACC</u>
Specific Gravity (20°C):	1.15	0.995
Viscosity (25°C):	40 cps	25 cps
Colour:	brown	black



*Low viscosity polyurethane resins such as **ULTRAFINE** are used in conjunction with sleeve pipe systems for the stabilization of water-bearing soils beneath historical structures*

PRODUCT MIXING & APPLICATION

1. Add between 1% and 10% ACCELERATOR to RESIN depending on the desired setting time.
2. Mix thoroughly until homogeneous.
3. Install using a single-component injection pump.
4. Clean pump and equipment with appropriate solvent every few hours, or once injection work is completed.

PACKAGING

RESIN - 20 kg pails
ACCELERATOR - 2 kg bottles

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