



## DATA SHEET NO. 3930-399

### SPEED-E-ROC™

#### Rapid-Setting Anchoring Cement Grout

##### DESCRIPTION

SPEED-E-ROC is a pourable, rapid setting and hardening, high strength, hydraulic cement compound designed for anchoring and grouting. SPEED-E-ROC has a controlled expansion system and is non-shrink. SPEED-E-ROC has a set time of 10 – 20 minutes at 25° C and obtains 34.4 MPa in one hour.

##### USES

SPEED-E-ROC is ideally suited for anchoring rails, bolts, ties, dowels, reinforcing steel, threaded rods, sign posts, parking meters, street signs, and ornamental steel work into concrete or any other properly-prepared, porous, hardened material. SPEED-E-ROC may be used as a precision, highly flowable and rapid-setting grout for machinery base plates, bearing plates and columns. It is suitable for industrial, residential and civil engineering applications. The product can be used in interior or exterior applications and freeze-thaw environments.

##### FEATURES/BENEFITS

- Very rapid hardening and setting properties.
- Suitable for exterior and interior applications.
- Freeze-thaw stable.
- Very high one-hour and 24-hour strengths.
- Controlled expansion.
- Cement-based; contains no chloride accelerators.
- Grey colour; similar appearance to concrete.
- Non-metallic; contains no chlorides.
- Easy to use; just mix with water.
- Very pourable.
- Accelerates Portland cement based materials.

##### PACKAGING

3.6 Kg Tub

22.7 Kg Pail

##### COVERAGE

Pail yields 0.014 m<sup>3</sup> (0.50 ft.<sup>3</sup>). Tub yields 0.0022 m<sup>3</sup> (0.08 ft.<sup>3</sup>). Yields are based on 3.8 L of water per pail of SPEED-E-ROC and will vary based on substrate profile, variations in mix water amounts, and waste. Field trials should be performed to determine yields based on jobsite conditions.

##### SHELF LIFE

Two years from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

##### TECHNICAL DATA

The following physical properties were obtained using the water to powder ratio of 3.8 L/22.7 kg of SPEED-E-ROC at 23.8° C.

Set Time (Per ASTM C191)	10 – 20 minutes
Controlled Expansion	0.08%
Compressive Strength (Per ASTM C109 – air cured)	
@ 1 hour	27.6 MPa
@ 24 hours	40 MPa
@ 28 days	48.9 MPa

All technical data is typical information, but may vary due to testing methods, conditions, and operators.

##### APPLICATION

##### For Anchoring into Concrete or Porous Hardened Material

**Surface Preparation ...** Substrate must be structurally sound and free of any contaminants that will adversely affect bond. Drill anchor hole using a rotary percussion hammer. Prepared surface must be dust-free and have a sufficient profile to ensure adequate mechanical lock.

Pre-soak repair zone prior to application of SPEED-E-ROC to a saturated, surface dry (SSD) condition and free of standing water.

Anchor bolts must be installed utilizing a washer. The anchor hole diameter shall be no larger than what is required for the anchor bolt and washer assembly to slide to the bottom of anchor hole and rest on bolt head.

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**Grouting** ... Substrate must be structurally sound and free of any contaminant that will adversely affect bond. Prepared surface must be dust-free and have a sufficient profile to ensure adequate mechanical lock. Pre-soak repair zone prior to application of SPEED-E-ROC to a SSD condition and free of standing water. Ensure forming system is watertight to avoid excessive leakage of SPEED-E-ROC from the grout zone. Use a suitable release agent, such as DUOGARD® from W. R. MEADOWS, on forms to aid in the removal process.



**Mixing** ... Mix one part potable water to six parts of SPEED-E-ROC or until homogenous, lump-free, pourable mixture is obtained.

Mix 22.7 kg pail with approximately 3.8 L of potable water. Mix 3.6 kg tub with approximately 0.6 L of potable water.

#### **LIMITATIONS/PRECAUTIONS**

Not intended to be used as an underlayment or overlay. Do not apply below 1.7° C or above 35° C or when rain is imminent. Protect from freezing for a minimum of 24 hours. SPEED-E-ROC should be crowned or shaped as to allow water flow away from anchor and/or coated with a concrete sealer or penetrating sealer. SPEED-E-ROC is not intended to be used in submerged or continuously wet applications. Do not add any admixtures. Exceeding liquid requirements shall result in reduced physical properties. Realize that set time will decrease as the product, air, substrate, and mixing liquid temperature increases and will be increased as the temperature decreases. Failure to follow industry standard practices may result in decreased material performance. All cementitious materials, including SPEED-E-ROC, will have an adverse effect on aluminum that has not been surface-treated with a protective barrier finish.

#### **HEALTH AND SAFETY**

Avoid inhalation of dust. Avoid direct contact with this product. Utilize gloves and safety glasses to minimize direct contact. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children. For industrial use only. Refer to Safety Data Sheet for complete health and safety information.

#### **MASTERFORMAT NUMBER AND TITLE**

03 62 13 - Non-Metallic Non-Shrink Grouting

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