

SECTION 03540

RECOMMENDED SPECIFICATION FOR
SCHÖNOX SEZ PLUS READY MIXED RAPID SETTING SAND CEMENT SCREED
SUITABLE FOR INSTALLATIONS OF:
BONDED SCREEDS, FLOATING SCREEDS ON INSULATED MATERIAL OR SEPERATED LAYERS,
HEATED SCREEDS, REPAIRS OF CEMENT BASED SCREEDS AND CONCRETE IN INTERIOR AREAS.

PART 1 – GENERAL**1.01 SUMMARY**

- A. This is the recommended specification for **Schönox SEZ PLUS Ready Mixed Rapid Setting Sand Cement Screed** for installations of bonded screeds, floating screeds, heated screeds, and repairs of cement based screeds and concrete in interior areas. Once mixed with water, it can be pumped or poured and provides a smooth, strong, hard surface.

1.02 SECTION INCLUDES

- A. **Schönox SEZ Plus-Ready Mixed Rapid Setting Sand Cement Screed**
- B. **Schönox VD Universal Acrylic Primer**

1.03 QUALITY ASSURANCE

- A. Installation of the Ready Mixed Rapid Setting Sand Cement Screed must be done by a qualified installer, using equipment and tools recommended by the manufacturer.
- B. Layer thickness above ½”.
- C. Underlayments shall develop a compressive strength of 6500 psi per ASTM C109/mod (air cure only) and a flexural strength of 1000 psi per ASTM C348.
- D. Underlayment shall be ready for foot traffic after approximately 3 hours and be ready to receive floor covering after approximately 24 hours, up to 2” layer thickness for ceramic tiles, textile, and elastic coverings, for wood flooring approximately 72 hours.

1.04 DELIVERY, STORAGE AND HANDLING

- A. General requirements: Materials shall be delivered in their original, unopened packages and protected from the elements. Avoid extreme hot or cold, direct sunlight and moisture. Damaged materials shall be removed from the job site.

1.05 SITE CONDITIONS

- A. All slabs on or below grade must be known to have an intact vapor retarder directly beneath the concrete in accordance to the relevant standards. Do not install below 41° F surface temperature. Protect curing layers from high ambient temperatures, direct sunlight and drafts. Do not apply over movement or expansion joints. Protect metallic constructions with edge strip. Never mix with cement or additives other than Schönox approved products.

PART 2-PRODUCTS

2.01 MATERIALS

- A. The Ready Mixed Rapid Setting Sand Cement Screed shall be **Schönox SEZ PLUS**.
- B. The Primer to create a slurry shall be **Schönox VD**.

2.02 MIX DESIGNS

- A. Mixing ratios: **Schönox SEZ Plus** 55 lb. bag with 1.9 quarts of water. Product shall be mixed in a clean mixing drum. Add **Schönox SEZ Plus** to cold clean water to form a homogenous mixture. Use of a heavy-duty drill (min 600 rpm) is recommended to obtain a lump-free mix, after 3 minutes mix again. **DO NOT OVER WATER!** Follow written instructions per **Schönox SEZ Plus** bag label or product data sheets.
- B. When using **Schönox SEZ Plus** as a slurry pre-wet the substrate and mix 3.2 gallon of water, 0.5 gallon of **Schönox VD**, and 55 lb. of **Schönox SEZ Plus**. Follow written instructions per **Schönox SEZ Plus** bag label or product data sheets.
- C. For pump installations **Schönox SEZ Plus** shall be mixed using an automatic mixing pump. Start the pump and adjust to the minimum water reading. **DO NOT OVER WATER!** Check the consistency of the product on the floor to ensure a homogeneous mixture of the pour. If settling is occurring, reduce the water amount and recheck. Conditions during the installation, such as

variation in water, powder, substrate and ambient temperature, require that the water setting be monitored and adjusted carefully to avoid overwatering.

PART 3-EXECUTION

3.01 PREPARATION

- A. Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion. All subfloors must be solid and sound. Any loose areas must be mechanically removed back to a sound base.
- B. Subfloors shall be inspected and corrected for moisture and any other condition that could affect the performance of the underlayment or finished floor covering. This product is not a vapor barrier and will allow free passage of moisture. Follow the directives of the floor manufacturer regarding maximum allowable substrate moisture content and test the substrate prior to installing **Schönox SEZ Plus**. Where substrate moisture exceeds the maximum allowed then an application of **Schönox SDG** or **Schönox EPA** may be used to suppress residual moisture (see data sheet). **Schönox SDG** is suitable for cement based substrates with residual moisture up to 93% RH or 12 lbs. and **Schönox EPA** is suitable for cement based substrates with residual moisture up to 100% RH or 25 lbs.
- C.
- D. Gypsum substrates should always be dry. Do not use damp proof membranes on gypsum substrates.
- E. Old water-soluble adhesives should be removed completely; old water resistant adhesives should be mechanically removed as far as possible. The complete mechanical removal of cutback (i.e. grinding or sanding) can be hazardous as old cut-back adhesives may contain asbestos. Consult with government agencies for removal of flooring adhesives that contain asbestos. Prime remaining adhesive residues accordingly.
- F. Old floors such as ceramic tiles should be thoroughly cleaned and abraded.
- G. All cracks and non moving joints in the subfloor shall be repaired.
- H. It is the responsibility of the flooring contractor to ensure that the subfloor is thoroughly clean and properly anchored prior to the installation of any **Schönox** products.

B. PRIMING

1. Priming is not required.

3.02 APPLICATION OF UNDERLAYMENT

- A. Pour or pump the **Schönox SEZ Plus** and spread using a stainless steel smoothing trowel at a minimum thickness of ½". Underlayment can be carefully walked on after in about three hours.
- B. To apply a bonding slurry pre-wet the substrate and apply slurry made of **SEZ Plus** mixed with **Schönox VD** and water (mix 3.2 gallon of water, 0.5 gallon of **Schönox VD**, and 55 lb. of **Schönox SEZ Plus**).

3.03 PREPARATION FOR FLOORING INSTALLATION

- A. Underlayment can accept ceramic tiles, textile, and elastic coverings after approximately 24 hours, or wood flooring after approximately 72 hours for layer thickness up to 2". See manufacturer's recommendations for subfloor requirements.

3.04 FIELD QUALITY CONTROL

- A. Where specified, field sampling of **Schönox** compounds is to be done by taking an unopened bag of the product being installed to an independent testing facility to perform the compressive strength testing in accordance to ASTM C 109/modified: air cure only.

3.04 PROTECTION

- A. Prior to installation of the finished flooring, the surface of the underlayment shall be protected from abuse by other trades by use of plywood, Masonite or other suitable protection.

END OF SECTION