



SHEP WELD

LIQUID BONDING ADMIXTURE

DESCRIPTION

Shep Weld is a non-redispersable, liquid bonding admixture used to produce polymer modified concrete and mortar. Shep Weld is a milky white, water based emulsion of high solids acrylic polymers and modifiers. Shep Weld is non-yellowing, and has excellent resistance to ultraviolet degradation, heat and most common chemicals.

Shep Weld does not alter the color of the mixture.

PRIMARY APPLICATIONS

- Cement based coatings, toppings, patching mortars, leveling compounds, stucco, and terrazzo

FEATURES & BENEFITS

- Increases flexural and tensile strength
- Improves bond strength
- Reduces shrinkage
- Resists water penetration
- Protects from freeze-thaw damage
- Non-yellowing

COMPLIANCES

- Complies with ASTM C 1059, Type 2
- USDA compliant

TECHNICAL DATA

Typical Engineering Data	Unmodified Sand-Cement	Sand-Cement with Shep Weld
ASTM C 109 psi (MPa)		
Compressive Strength		
3 days	1,640 (11.3)	2,890 (19.9)
7 days	2,345 (16.2)	3,410 (23.5)
ASTM C 190 psi (MPa)		
Tensile Strength, 7 days	246 (1.7)	510 (3.5)
ASTM C 78 psi (MPa)		
Flexural Strength, 7 days	410 (2.8)	1,096 (7.6)
ASTM C 321 psi (MPa)		
Bond Strength, 7 days	56 (0.4)	486 (3.3)

Material Properties

Weight per gal	8.65 lb (3.9 kg)
VOC content	<10 g/L
Specific gravity	1.04

DIRECTIONS FOR USE

Surface Preparation: Surface must be structurally sound, clean, free of dust, dirt, oil, curing or form release compounds, paint, laitance, efflorescence and other contaminants. New concrete and masonry surfaces must be cured 7 days. Provide an absorptive surface on smooth precast or formed concrete by abrading the surface.

Follow the surface preparation directions for the product in which Shep Weld is being used as an admixture.

Mixing: Stir Shep Weld slowly and thoroughly using slow speed mixing equipment and a clean container. Do not aerate the Shep Weld.

Recommended Mixtures:

Bonding Slurry: Dry mix 1 part portland cement with 3 parts dry sand and add undiluted Shep Weld to produce a pourable slurry coat. Brush mixture thoroughly into voids and pores of surface to eliminate air pockets. Before slurry coat dries, follow immediately with patching materials that are compatible with portland cement.

Patches, Overlays And Toppings: For depths 1/2" (12.7 mm) or greater, mix 1 part Shep Weld with 3 parts potable water. Proportion dry sand, cement, aggregate and add measured amount of mixing liquid.

Featheredging and repairs less than 1/2" (12.7 mm) deep will require additional Shep Weld in the mix.

Terrazzo: Make up a mixing liquid of 1 part Shep Weld to 3 parts potable water.

Thin Coat Wall Applications: Manufactured wall coatings; mix 1 part Shep Weld to 3 parts potable water for mixing liquid, or as directed in instructions for mixing coating.

Field Mixed Stucco: Mix 1 part Shep Weld to 3 parts potable water.

Continued on reverse side

Cement Plaster Coatings: Applications $\frac{3}{8}$ " (0.95 cm) or less; use 1 part Shep Weld to 2 parts potable water.

Applications over $\frac{3}{8}$ " (0.95 cm); use a 1:3 mixture.

Pointing Mortars: Manufactured tuckpointing mortars such as JOINT-DRI and other special mortars for thin applications; mix 1 part Shep Weld to 3 parts potable water for mixing liquid.

Application: Use only light pressure on trowel and finish with as few strokes as possible. Keep trowel clean and wet to prevent sticking. Do not over-trowel. Mixes with Shep Weld do not normally require curing, but on hot, dry days, or windy days, it is advisable to cover with moist burlap for 24 hours or as recommended. Air-cure the surface for 2 to 4 days for normal use, and 4 to 7 days for heavy traffic areas. Refer to "PRECAUTIONS," for curing water containment structures.

Clean-Up: Clean tools and equipment with detergent and water immediately following use. Clean drips, spills and smears while mix is still wet. Mixes containing Shep Weld are extremely difficult to remove if allowed to dry before cleaning.

PACKAGING/YIELD

Shep Weld is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails and six 1 gal (3.79 L) plastic bottles.

SHELF LIFE

One year in original, unopened container.

LIMITATIONS

- Do not apply mixes modified with Shep Weld when the temperature is below, or expected to fall below 40°F (4°C) within 48 hours.
- Do not use with air entrained cements.
- Excessive moisture and high humidity will slow curing time.
- Provide adequate ventilation when using Shep Weld in enclosed tanks, reservoirs or other areas where air circulation is limited.
- Air-cure cisterns, tanks or pools for minimum 7 to 10 days before filling with water.
- Concrete mix designs using Shep Weld should be evaluated and tested for performance and application properties prior to use.
- Store between 40°F to 90°F (4°C to 32°C). Protect from freezing.
- If frozen, place in a warm room to thaw. Do not use direct heat or force thawing.
- In all cases, consult the MSDS before use.

LIMITED WARRANTY: NOTICE - READ CAREFULLY. CONDITIONS OF SALE. Manufacturer offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may be varied by written agreement of a duly authorized corporate officer of Manufacturer. No other representative of or for Manufacturer is authorized to grant any warranty or to waive limitation of liability set forth below.

Warranty Limitation: Manufacturer warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, Manufacturer will replace the defective product with new product without charge to the purchaser. Manufacturer makes NO OTHER WARRANTY, either expressed or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall Manufacturer be liable for special, indirect or consequential damages resulting from the use or handling of the product, and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

Inherent Risk: MANUFACTURER MAKES NO WARRANTY TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.