

K A U F M A N

PRODUCT
INFORMATION

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SureGrout UW

Description

SureGrout UW is a special version of our famous SureGrout structural grouting compound designed for underwater placement. It is a ready-to-use dry powder that requires only the addition of water to produce a non shrink grout which exhibits exceptional resistance to "washing-out" of the cement and fines or segregation when placed in stationary or moving fresh or salt water.

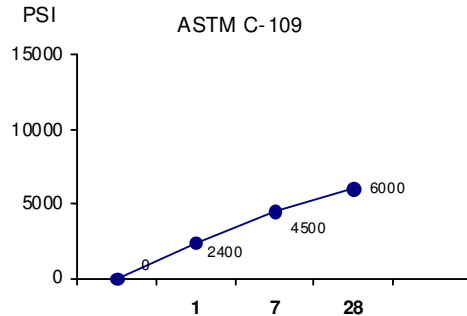
It is composed of special portland cements, washed and properly graded quartz aggregates plus other proprietary ingredients including a corrosion inhibiting agent to allow the product to set underwater without excessive expansion or shrinkage. No metallic aggregates are used. It can be pumped with normal grout pumps.

Uses

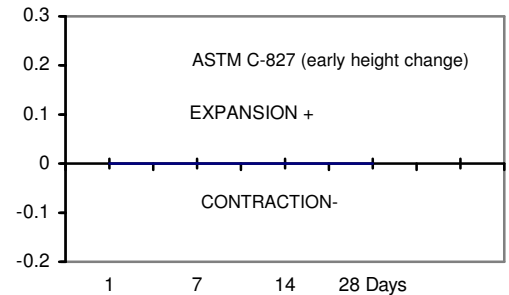
Recommended for grouting to repair deteriorated underwater or tidal zone concrete structures without significant "wash-out" of the cement. Can also be used as patching or pointing cement for joints over 1/4' wide. Applications include bridge columns, concrete piling and dams. Particularly effective when used with metal or fiberglass jackets, around the pilings, to fill the annular space completely.

Physical Properties High Strength

COMPRESSIVE STRENGTH



Expansion / Contraction



Packaging

50 lb. moisture resistant bags yielding .45 ft³ or 775 in³

Compliances

ASTM	C-109	CRD	C-227
	C-157		C-621
	C-827		C-61
	C-1107		

Directions

Surface Preparation

Substrate must be clean and sound and free of foreign matter. All loose and unstable material must be removed. Substrates should be sand blasted or cleaned with high-pressure water jet according to ASTM D-4258, D-4259. Depending on the circumstances, scabbing or bush hammering may be appropriate. Obtain an aggregate-fractured surface with a minimum surface profile of 1/16".

Mixing

Mix 3.5 quarts water with each 50 lb. bag. A mechanically powered grout mixer must be used. Ensure that the machine and number of workers are adequate to properly carry out the grouting in a continuous manner. Add the powder to the water, in the mixer, and mix for a minimum of 5 minutes, making sure that a smooth, even mix is obtained.

Placing

Use the mixed grout within 30 minutes. Pump or pour grout through a minimum of 1/2" flexible hose to the lowest point in the form. At the start of the operation, the grout flow should be restricted in order to avoid any water entrapment. The bottom of the hose may be raised as necessary to reduce any backpressure, but should not be raised above the level of the grout.

Do not place SureGrout UW in temperatures below 40°F, or when the temperature is expected to drop below that during the first 24 hours after placement.

SureGrout UW may be placed in depths up to 4 feet in one pour when placed above water. When placed under water, due to the heat sink effect, up to a 7 foot thick lift may be placed at one time. For thicker sections of up to 10' above water and 20' below water, it is necessary to add a clean rounded and well graded 3/8 to 1/2 inch pea gravel. Never add more than 25 lbs. of pea gravel to 1 bag of SureGrout UW by weight.

Curing

Normally not required when intermittently or totally submerged. However, when cast above water, all exposed surfaces should be thoroughly cured using a product that meets all aspects of ASTM C-309, Type 2, Class B, such as Thinfilm 450.