



CCMP GROUT

NON-METALLIC, NON-SHRINK GROUT

ITEM NUMBER CC MP GROUT

DESCRIPTION

CCMP Grout is specially formulated for precision non-shrink industrial applications. This non-shrink, non-metallic grout does not contain chloride and can be used in range of consistencies from plastic to fluid. CC MP Grout meets ASTM C1107 Grade C requirements.

INDUSTRY USES

CCMP Grout is ideally suited for a wide range of applications requiring strength and durability including: heavy equipment and machinery bases, structural columns, pump and equipment bases, precast tee joints, repointing mortar joints, structural cracks, bearing plates, rail posts and sealing bolts, post tensioned cables.

CCMP Grout contains specially graded, fine and select silica aggregates, cement, shrinkage compensating ingredients, and plasticizing and water-reducing agents. Strength, dimensional stability, flowability, workability and setting characteristics are assured by careful blending in plants under rigid quality control standard.

TECHNICAL DATA

| | | | |
|--|-----------------------------------|-----------------------|-----------------------|
| C266 Set Time (approximate) | Plastic | Flowable | Fluid |
| Initial Set | 3.6 hours | 4 hours | 3.6 hours |
| Final Set | 4.8 hours | 4.85 hours | 4.9 hours |
| C109 Compressive Strength | Plastic | Flowable | Fluid |
| 1 day | 3,550 psi (MPa 24.48) | 3,100 psi (MPa 21.72) | 1,500 psi (MPa 10.68) |
| 3 days | 5,550 psi (MPa 38.26) | 4,850 psi (MPa 33.44) | 3,250 psi (MPa 22.41) |
| 7 days | 7,050 psi (MPa 48.60) | 6,550 psi (MPa 45.16) | 4,550 psi (MPa 31.37) |
| 28 days | 10,650 psi (MPa 73.43) | 8,750 psi (MPa 60.33) | 7,350 psi (MPa 50.67) |
| C348 Flexural Strength) | | | |
| 1 day | 710 psi (MPa 4.89) | | |
| 28 days | 1,120 psi (MPa 7.79) | | |
| D496 Splitting Tensile Strength | | | |
| 1 day | 570 psi (MPa 3.93) | | |
| 28 days | 650 psi (MPa 4.48) | | |
| C531 Coefficient of Thermal Expansion | 4.77 x 10 ⁻⁶ in/in ° F | | |
| E488 Strength of Anchors | Tensile Strength | Shear Strength | |
| 1 ¼" dia bolt in a 2 ½" dia hole with 9" embedment | 52,500 lb | 23,700 lb | |
| ½ dia bolt in a 1 1/8" dia hole with 4" embedment | 6,900 lb | 1,890 lb | |

PACKAGING

50lb Bag

Yield – approx. 0.43 ft³/ 50 lb bag

Shelf Life: 12 months properly stored

Storage Conditions: Store in unopened container in a dry and cool area

SURFACE PREPARATION

Surfaces must be free from oil, grease or any loose materials. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Base plate preparation

It is essential that area is clean and free from oil, grease, and scale. Air pressure relief hole should be provided to allow venting of any isolated high spots.

Leveling Shims

If they are to be removed after the grout has hardened, they should be treated with a thin layer of grease.

Pre-soaking

Several hours prior to grouting, the clean area should be flooded with fresh water. Immediately prior to grouting any free- standing water should be removed with car to blow out bolt holes and pockets.

MIXING

The amount of water added to obtain the desirable consistency must be precise, and an accurate measuring method must be employed. Consistencies described conform to ASTM C1107. According to the desired grout consistency, the amount of water required for each 50 lb bag of MP Grout is

| Plastic | Flowable | Fluid |
|-----------------|-----------------|-----------------|
| 5-7 pints water | 7-8 pints water | 8-9 pints water |
| 5.2-7.3 lb | 7.3-8.3 lb | 8.3-9.4 lb |
| 2.4-3.3 liters | 3.3-3.8 liters | 3.8-4.3 liters |

In cold conditions warm water (95-110 ° F) may be used to accelerate the strength development.



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APPLICATION

For best results, a mechanically powered grout mixer should be used. For small quantities of 1-2 bags, a slow speed electric drill with a suitable paddle is recommended.

It is essential that machine mixing capacity and labor availability is adequate to enable the grouting operation to be carried out continuously. This may require the use of holding tank with provision for gentle agitation to maintain fluidity. The selected water content should first be accurately measured into the mixer. Slowly add the total contents of MP Grout bag. Mix continuously for 5 minutes, making sure that a smooth, even consistency is obtained. Place the grout within 5 minutes of mixing to gain the full benefit of the expansion process. Where large volumes have to be placed MP Grout may be pumped. A heavy-duty diaphragm pump is recommended for this purpose.

For deep application (over 3"), clean 3/8" (25 mm) pea gravel should be added to the grout:

3" to 5" application 25% by weight
over 5" application 50% by weight

Finishing and Curing

Follow accepted ACI curing practices. Exposed surfaces should be cured with a membrane forming curing compound.

CAUTION

Safety Considerations

- Use of safety goggles and chemical resistant gloves are recommended
- Use of NIOSH/MSHA/OSHA approved respirator is recommended if ventilation is inadequate
- Avoid breathing vapors
- Avoid skin contact
- Avoid eye contact
- Do not re-temper
- Do not vibrate
- Do not use any additives including accelerators, water reducers or air entraining agents

First Aid

- EYE CONTACT: Flush immediately with water for at least 15 minutes. Contact physician immediately.
- RESPIRATORY CONTACT: Remove person to fresh air.
- SKIN CONTACT: Remove any contaminated clothing.

KEEP CONTAINER TIGHTLY CLOSED – KEEP OUT OF REACH OF CHILDREN – NOT FOR INTERNAL CONSUMPTION – FOR INDUSTRIAL USE ONLY

LIMITED WARRANTY

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