BASF

The Chemical Company

PRODUCT DATA

3 03 63 00 **Epoxy Grouting**

MASTERFLOW® 648 CP GROUT ACCELERATOR

Description

When Masterflow® 648 CP Grout Accelerator is added to Masterflow® 648 CP Grout or Masterflow® 648 CP Plus Grout, it accelerates the cure rate at low temperatures. Masterflow® 648 CP Grout Accelerator should be used in temperatures below 60° F (16° C).

Yield

Order 1.9 lbs of Accelerator for each 230 lb unit of grout.

MIXING PROPORTIONS:

648 CP Resin:
22.3 lbs (10.1 kg)

648 CP Hardener:
7.6 lbs (3.4 kg)

648 CP Accelerator:
1.9 lbs (0.9 kg)

648 CP Aggregate*:
200 lbs (90.7 kg)

* Adjust aggregate level to recommendation listed on the Masterflow® 648 CP data sheet.

Shelf Life

1 year when properly stored

Storage

Store in unopened containers at 60 to 80° F (16 to 27° C) in clean, dry conditions.

Features	Benefits
• Accelerated cure rate	Enables cold-weather applications
• Early strength development	Early return to service

Where to Use

APPLICATION

- Where heating exterior spaces is impractical
- When temperatures fall below 60° F (16° C)
- Where high early strengths are required

How to Apply

Mixing

1. Add 1 can Masterflow® 648 CP Hardener (7.6 lb) and 1 can Masterflow® 648 CP Grout Accelerator (1.9 lb) to the pail of Masterflow® 648 CP or CP Plus Resin (22.3 lb) and stir for 3 minutes. Use immediately. Do not let stand for more than 2 minutes before placing.

2. Proceed with grouting according to directions in the Masterflow® 648 CP or CP Plus product data sheets (Form Nos. 1019307 and 1019309).

For Best Performance

- Adding Accelerator does not improve the workability of grouts in cold-weather applications.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Protection and Repair

Technical Data

Compressive Strength

(ASTM C 579, Method B, modified 2 by 2" cubes)

Before mixing, all materials were conditioned for 24 hours at the respective cure temperatures given below.

CURE TIME RESULTS

Material cured at 40° F (4° C)

Hours	Non-Accelerated psi (MPa)	Accelerated psi (MPa)
16	—	—
24	—	100 (0.7)
48	800 (5.5)	4,000 (27.6)
72	3,900 (26.9)	8,700 (60.0)
96	5,000 (34.5)	9,400 (64.8)
120	6,800 (46.9)	11,400 (78.6)
144	7,100 (49.0)	12,000 (82.7)
168	8,000 (55.2)	13,100 (90.3)

CURE TIME RESULTS

Material cured at 50° F (10° C)

Hours	Non-Accelerated psi (MPa)	Accelerated psi (MPa)
16	—	—
24	—	3,900 (26.9)
48	4,900 (33.8)	12,400 (85.5)
72	9,200 (63.4)	14,000 (96.5)
96	11,500 (79.3)	15,500 (106.9)
120	12,800 (88.3)	17,000 (117.2)
144	14,500 (100.0)	17,400 (120.0)
168	14,800 (102.0)	17,400 (120.0)

CURE TIME RESULTS

Material cured at 60° F (16° C)

Hours	Non-Accelerated psi (MPa)	Accelerated psi (MPa)
16	—	6,800 (46.9)
24	2,600 (17.9)	10,500 (72.4)
48	9,000 (62.1)	13,000 (89.6)
72	13,500 (93.1)	16,000 (110.3)
96	16,500 (113.8)	17,500 (120.7)
120	17,200 (118.6)	17,700 (122.0)
144	17,400 (120.0)	18,000 (124.1)
168	17,400 (120.0)	18,000 (124.1)

Temperatures vary so radically (day vs. night, atmospheric vs. metal surface) that field judgment must still be used. When struck with a hammer, cured grout should have a solid, almost metallic feel.

Health and Safety

MASTERFLOW® 648 CP ACCELERATOR

DANGER – CORROSIVE

Masterflow® 648 CP Accelerator contains 2,4,6-tris((dimethylamino)methyl)phenol; furfuryl alcohol; bis(dimethylaminoethyl)phenol.

Risks

Combustible liquid and vapor. Contact with skin or eyes may cause burns. Ingestion may cause irritation and burns of mouth, throat and stomach. Inhalation of vapors may cause irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. May be absorbed through skin. Repeated or prolonged exposure increases the risk of absorption. Repeated or prolonged contact with skin may cause sensitization. INTENTIONAL MISUSE

Precautions

KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION. Vapors are heavier than air. Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Proposition 65

This product contains materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

0 g/L or 0 lbs/gal less water and exempt solvents when components are mixed and applied per Manufacturer's instructions.

For medical emergencies only, call ChemTrec (1-800-424-9300).

BASF Construction Chemicals, LLC – Building Systems

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Customer Service 800-433-9517
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