

PRODUCT DATA

3 03 40 00 **Precast Concrete**

MBT EAC-S

Water-based, top surface retarder for exposed-aggregate concrete

Description

MBT EAC-S is a top surface chemical retarder which provides a simple, economical method of exposing aggregates for freshly poured concrete flat work. MBT EAC-S allows for a range of textures and colorful surfaces for sidewalks, terraces, promenades and steps. MBT EAC-S can also be used to create construction joints.

Yield

100 – 150 ft²/gal (2.5 – 3.7 m²/L)

Packaging

5 gal (18.9 L) plastic pails

55 gal (208 L) plastic drums

Color

The material in every container of MBT EAC-S retarder is color-coded to show specific degrees of penetration. Each container bears the name of the color on the label. The lid is also colored to match the material inside.

See Chart on page 2.

Shelf Life

1 year when properly stored.

Features

- Etch retention in temperatures up to 110° F (43° C)
- Ease of application
- Color-coded
- Three strengths available (Regular, Deep, 50/50 Blend)
- Water-based

Benefits

- Suitable for a wide variety of environments
- Excellent top surface results
- Easy identification
- Suitable for various surface profiles
- No solvent, no odor; no fume or flammability problems

Storage

Store in unopened container in a cool, clean, dry area between 40 and 110° F (4 and 43° C). Keep containers tightly sealed after opening to maintain shelf life freshness. Protect from freezing.

Where to Use

APPLICATION

- Sidewalks
- Driveways
- Terraces
- Promenades
- Steps
- Construction joints
- Face-up exposed-aggregate applications

LOCATION

- Horizontal

SUBSTRATE

- Fresh concrete

Color Coding Information

TYPE OF RETARDER	COLOR	DEPTH OF ETCH	AGGREGATE SIZE* IN(MM)
MBT EAC-S Regular	Blue	Light	1/4 – 3/8 (6 – 9.5)
MBT EAC-S 50/50 Blend	Purple	Medium	3/8 – 1/2 (9.5 – 12.5)
MBT EAC-S Deep	Red	Deep	> 1/2 (> 12.5)

* Recommended aggregate size.

For lighter, deeper or etches in-between the above, please consult a BASF representative.

How to Apply

Placing the concrete

1. Prepare a concrete mix design that will satisfy the structural and architectural requirements. This may include an integral color and a special aggregate.
2. Pour the concrete and screed, float or trowel level. Do not tamp or overwork the top surface as this drives the aggregate down away from the top surface and thereby diminishes the depth and uniformity of exposure.
3. Use a wood float or bull float to work the top surface. Do not overwork the surface with a steel trowel as this tends to seal the top surface thereby restricting the penetration of the chemical retarder.
4. Additional aggregate may be sprinkled on the top surface and should be carefully working in making sure the aggregate is completely surrounded by cement paste. (Use of a roller jitterbug is very helpful in this operation).

Mixing

Turn the MBT EAC-S pail upside down and shake well.

Application

1. Apply MBT EAC-S top surface retarder as soon as the surface water has disappeared (usually in approximately 30 minutes, depending on weather conditions).
2. MBT EAC-S retarder is sprayed on the top surface of the concrete with an ordinary low pressure garden sprayer at the rate of 100 - 150 ft²/gal (2.5 – 3.7 m²/L).
3. Protect areas adjacent to the job from over spray, as MBT EAC-S may stain these areas.

Same Day Water Washing

In some cases the retarded matrix can be washed off the same day the concrete is poured. However, timing is critical and many factors must be considered in order to guarantee an acceptable finish.

NOTE: Anything which will affect the set of the concrete such as ambient temperature, wind-- whether the concrete is in full sun or shade, or whether the surface is flat or on a slope—must be taken into consideration. In determining when to wash off the retarded matrix, with so many variables affecting the set of the concrete, it is impossible to give a time frame.

As soon as the concrete has hardened sufficiently (the concrete will set and be strong enough to support the weight of a person), wash off a small area to check the depth of etch. If the etch is too deep, wait an hour and test it again. When the etch is sufficient, hose off the top surface with water and use a stiff broom or brush to remove the retarded matrix, thereby exposing the aggregate. High pressure water is more efficient and should be used when available.

Covering and Water Washing

1. Immediately after applying MBT EAC-S retarder, cover the concrete with plastic sheeting, securing around the edges to prevent ballooning. The plastic sheeting should be in direct contact with the top surface of the freshly poured concrete.

2. After the concrete has hardened sufficiently, generally overnight, remove the plastic sheeting in sections, checking a small area to determine if the proper depth has been achieved. If the depth appears to be too deep, wait a few hours to check again.

3. Hose the top surface of the concrete with water and use a stiff broom or brush to remove the retarded matrix, thereby exposing the aggregate. (High pressure water is more efficient and should be used when available). Concrete sprayed with MBT EAC-S retarder must be water washed the next morning.

NOTE: In hot or windy conditions, the retarded matrix may have to be removed the same day whether it was covered with plastic or not.

Clean Up

Clean all tools and spray equipment with soap and water immediately after use.

For Best Performance

- MBT EAC-S will freeze at low temperatures.
- MBT EAC-S must be applied immediately after surface or bleed water disappears. Delay in application will affect depth of etch.
- Do not store in metal spray equipment more than 2-3 hours.
- Recommended maximum concrete temperature is 110° F (43° C).
- Since retarded concrete will eventually harden, the surface should be checked periodically to determine the depth of etch. When the temperature is high, or if high-early strength cement is used, check the surface earlier and more frequently.
- 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 versions.
- 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.

Mock Up

- Skill and practice are necessary to produce any high quality architectural finish. Samples and test mock-ups duplicating actual production conditions are essential to obtain a representative finish for approval prior to commencing production.
- Some important variables that should be controlled as close to actual cast conditions include retarder coverage rate and method of application, mix design and slump, admixtures, heat of plastic and cured concrete, vibration, piece thickness, length of time in form and method of cleaning.
- This is especially important with light etches which are particularly affected by changing conditions.
- Changes in mix design (cement, sand, aggregate, water), admixture content, temperature and any other factor influencing compressive strength development should be kept to a minimum. If white cement (Type III) is used in the face mix, consult a BASF representative.

Health and Safety

MBT EAC-S

Caution

MBT EAC-S Regular contains no hazardous chemicals as defined by 29 CFR 1910.1200 or WHMIS.

MBT EAC-S Deep and 50/50 Blend contain 2-Butoxyethanol.

Risks

May cause skin, eye or respiratory irritation. Ingestion may cause irritation.

Precautions

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. 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 material listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

REGULAR: 0 g/L or 0 lbs/gal, less water and exempt solvents.

50/50 BLEND: 70 g/L or 0.58 lbs/gal, less water and exempt solvents.

DEEP: 138 g/L or 1.15 lbs/gal, less water and exempt solvents.

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

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