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Three Bond Fine Chemical Co., Ltd.

Technical Data

ThreeBond 1390R

Anaerobic Sealant Curing Accelerator

1. Product description

ThreeBond 1390R is a primer for accelerating curing of anaerobic sealants. Apply ThreeBond 1390R to a substrate and dry it before applying an anaerobic sealant, and curing of the anaerobic sealant will be accelerated through contact with the primer.

This product is a low halogen content material. The total chlorine content and total bromine content are less than 900 ppm each, and the sum of total chlorine content and total bromine content is less than 1500 ppm.

Hereinafter, ThreeBond is abbreviated to TB.

2. Features

- (1) Alcohol (ethanol) type primer
- (2) Acceleration of curing of anaerobic sealants

3. Applications

Acceleration of curing of anaerobic sealants

4. Properties

Table 1 Properties of TB1390R

Test items	Unit	Characteristic value	Test methods	Remarks
Appearance	-	Transparent blue green	3TS-2100-001	Visual inspection
Specific gravity	-	0.79	3TS-2500-001	

5. Characteristics

Table 2 Characteristics of TB1390R

Test items	Unit	Characteristic value	Test methods	Remarks
Lap shear strength	MPa	23.1	3TS-4100-013	*1, *2 Fe
Fitted bonding strength		29.2	3TS-4140-001	*1, *2 Fe
Set time	sec	20	3TS-3140-006	*2 Fe

*1 At 25°C, after 24 hours

*2 Measurement by using TB1359D

6. Usage

- (1) Use a solvent to remove moisture, oil and contaminants from the surface to be sealed.
- (2) Apply an appropriate amount of the primer, and leave it to dry for 1 minute or more. Then, apply an anaerobic sealant, and assemble the parts.
- (3) For other information regarding application and curing of the primer and anaerobic sealant, consult our sales engineers.

7. Directions for use

- (1) Harmful. Do not ingest or inhale. If swallowed, do not induce vomiting. Immediately rinse the mouth, and get medical attention.
- (2) When using this product, wear protective equipment, such as a mask, goggles and gloves (impervious). If in eyes, rinse with clean water for at least 15 minutes, and get medical attention. If on skin, wash with water or soap and water.
- (3) If any bodily abnormalities occur, discontinue use, and get medical attention. Contact with it may cause inflammation. People who have allergies or susceptible skin should avoid handling it.
- (4) Flammable. Keep away from fire.
- (5) Keep out of reach of children.
- (6) For industrial use. Do not use for household purposes.
- (7) Contains harmful materials. Do not use for drinking water or hot water supply piping.
- (8) Equip the working area with a local exhaust system.
- (9) Before using, sufficiently confirm whether the method of application and the purpose are appropriate.
- (10) Some materials may deteriorate if this product is used. The effects on the application area should be confirmed in advance. If there are any problems, do not use.

- (11) To prevent quality deterioration, do not transfer into other container and do not return to original container.
- (12) White precipitates may be formed in some lots of the product. The white precipitates are generated from part of the components. They will not affect the performance. If the precipitates are removed before using the product, it will work without any problem.
- (13) Although the product may discolor, its performance will not be affected.
- (14) For hazard and toxicity information not mentioned herein, see the material safety data sheet (MSDS).

8. Storage

- (1) To prevent deterioration and contamination, fit the cap tightly, and store it in a dark place at -5 to 25°C away from direct sunlight.
- (2) Keep out of reach of children.

9. Disposal

- (1) Do not burn the product. It may generate harmful gas when burnt.
- (2) Ask specialized waste disposal services to dispose of the product.

10. Cautions

For Industrial
Use Only

(Do not use for household purposes.)

This product is developed for general industrial use. Before using this product, the user must accept the following terms:

- The technical data given herein are not guaranteed values, but examples of experimental values obtained by our specified test methods.
We do not guarantee that the uses described herein do not conflict with any intellectual property right.
- Before using this product, confirm the appropriateness and safety of the use for the application in question, and bear all responsibilities and risks involved in the use.
Never embed or inject into bodies nor use as a medical implant that may be left in the body.
- We are not liable for personal injury or property damage caused by improper handling of this product.
If the properties or usage of the product to be used are unclear, never use it.
- For detailed safety information of the product, see the Material Safety Data Sheet (MSDS).
To obtain the MSDS, contact our sales office or customer service center.
- Information in this document is subject to change at our own discretion.