

ALL ROUND PUTTY TYPE ADHESIVE USED FOR MANY FIELDS

PLASEAL **E-189**

MADE IN JAPAN

Nitto Chemical Industry Co., Ltd. is a specialized sealing compound maker which has been producing the best products and pursuing the best quality for about a half century.

We always value “hospitality” and continually develop our products to meet the expectation of every user, so they have been widely used in various fields such as on land, off shore and under the ground.

PLASEAL E-189 is all-round putty type adhesive used for many fields.

FEATURES

- Underwater hardenable epoxy adhesive
- Non sagging and perfect for applying to wall or around a pipe
- High tensile shear adhesive strength and compressive strength
- Only required to mix the same amount of base and hardening agent
- Little volume shrinkage even after hardening since no solvent is used

USES

- Repairing for construction, road and floor made from concrete or stone
- Mending water leakage points, or making waterproof
- Fixing hand hole and pipe underground, or adhering joint parts of each pipe
- Making and repairing for models and antiques
- Covering up for various cracked points or defective points

HIGH ADHESIVE MATERIALS

Steel, Metal (Aluminum, Zinc, etc.), Stone material, Lumber, Glass, Copper, Stainless etc.

LOW ADHESIVE MATERIALS

Polyethylene, Polypropylene, Vinyl chloride, Silicone, Rubber, Nylon, Fluorine, etc.

TYPE OF PACKING

- Base (250g) and Hardening (250g) / Set
- 30 Sets / Case

HOW TO USE



Take out the same amount of base and hardening agent you need with some gloves.

Take appropriate amount of base and hardening agent, and twist them to mix smoothly.

Mix them so well until the appearance will uniformly turn to gray color.

Apply to the places you would like to fix or repair, and don't touch and move it until it finishes hardening.

※Please do not work under the condition below 5°C
Wear some gloves and a mask when you apply.

SPECIFICATION

Basic Characteristics

Item	Characteristics	Test method
Appearance	Base / black putty Hardening / white putty	Observation
Mixing Ratio	1:1	Weight ratio
Specific Gravity	Base/1.95 Hardening/1.95	Convert weight in water
Applicable time	60 min. (20°C/200g)	Originally measured
Water Absorption	< 0.3%	Originally measured
Compressive Strength (MPa)	53 (20°C-24hr) 78 (20°C-168hr)	JIS K 6911
Hardness (HDD)	84 (20°C-24hr) 87 (20°C-168hr)	JIS K 7215

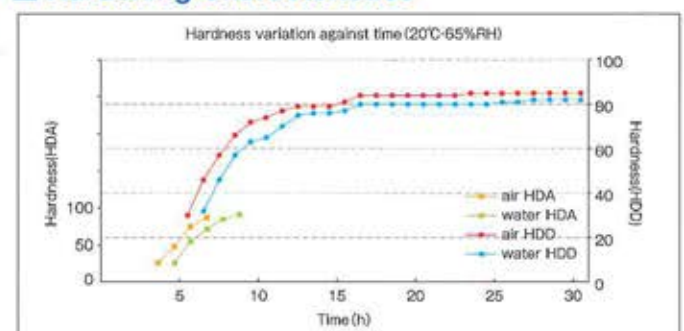
Tensile Shear Adhesive Strength

Adherend surface	Measured value (MPa)	Test method
Grind steel	12.3	JIS K 6850
Aluminum	6.4	
Stainless	9.6	
Hard vinyl chloride	0.6	
ABS	0.2	
FRP	2.9	

Chemical Resistance

Item	Measured value	Test method
Tap water	◎	Based on JIS K 6911
Salt water (3.5%)	◎	
Hydrochloric acid (10%)	○	
Sodium hydroxide (10%)	◎	
Acetone	×	
Toluene	△	
Methanol	×	
Heating oil	○	

Hardening Characteristics



*The above inspection data describes representative values, not standardized.

NOTE

- The above inspection data is measured originally, so it doesn't guarantee as a standardized data. Please confirm before applying if uses and conditions are appropriate. In some special conditions, the product might not show proper characteristics.
- Wear some gloves and mask when you apply.
- Wipe the product with soluble solvent like alcohol, then wash and clean with water so well if it would stick to the skin.
- Please take care not to adhere the product to the clothes.
- Remained products should be stored at the cool place avoiding direct sunlight where children would not be able to get them.

PRODUCT PACKAGE



CONSTRUCTION EXAMPLE



[TREATMENT OF THE ABOVE MENTIONED CONTENTS]

These descriptions on this leaflet are based on the available date and the current information, so they might be revised by the new expertise in the future. This product has been developed on the assumption that it should be used under a general condition, so in case of using this product under a special condition, please take appropriate actions as occasion may demand. The above mentioned content is something that helps you improve understanding about construction, and that is not for any kinds of warranty.