

# Screw Locking Agent

## BONBOND BB-2100

### 1. Outline

BB-2100 contains synthetic resins and rubbers for its main ingredients. By one application, it prevents screws, nuts and bolts from getting loose, leaking and rusting. Screws, nuts and bolts are usually required to be taken off. And so, BB-2100 is designed so as to be taken off at time of maintenance or repair by force 20%-30% more than that for screwing. One of the outstanding features of BB-2100 is that it has an excellent locking effect and yet can be taken off easily. Conventionally, paint has been used for the purpose of locking screws. But BB-2100 functions completely differently from the paint although they are similar to each other in that they are liquids.



### 2. Main Features

- IN VIEW OF PERFORMANCE
  - Cured BB-2100 is resilient and so resists vibration and impact excellently.
  - Being low viscous, it penetrates into every corner of threads and prevents the screws from getting loose and leaking.
  - Has excellent locking effect, and yet can be taken off easily.
  - Does not harm most plastics and painted parts.
  - Reduces frequency of quality claims resulting from screw losing and increases reliance on machinery.
  - Presents no fatigue and aging as with washers and maintains locking effect forever.
- IN VIEW OF ECONOMY AND CONVENIENCE
  - Use of washers, split pins, double-nuts can be discarded.
  - BB-2100 permits use of less accurate screws and bolts. And this enables you to save much material cost.
  - Material control can be simplified. Up to now, many kinds of washers, split pins and other devices were prepared to meet specific requirements.
  - No skill are required in application. Anyone can use it very easily.

### 3. Properties

*Viscosity:	700 ± 50cps.
*Specific Gravity:	0.85 ± 0.05
*Non-volatile Matter:	33 ± 2%
*Color:	Red, Green, Trasparent, White

### 4. Application Method

- Remove moisture, grease and other foreign matter.
- Apply with brush onto threads. You may apply a single drop on the screw head after it is fastened as BB-2100 penetrates into small clearances. Another convenient method is to dip threads in BB-2100. (200 gram container is provided with plastic nozzle, and no brush is needed.)
- Do not touch the screws until BB-2100 cures completely (about 6 hours).
- To unlock a screw or bolt, apply a torque approx. 30% higher than that used for locking.

## PROPERTY

\*INITIAL FIXING TORQUE 100KG-CM

TEMPER-ATURE	TORQUE	TIME	12HOURS	24HOURS	48HOURS
25°C	8MM	ORIGINALTORQUE	101	104	112
25°C	12MM	ORIGINALTORQUE	103	108	115

\*INITIAL FIXING TORQUE 10KG-CM

TEMPER-ATURE	TORQUE	TIME	12HOURS	24HOURS	48HOURS
25°C	8MM	ORIGINALTORQUE	16	22	54
25°C	12MM	ORIGINALTORQUE	17	24	57

\* Use hydrocarbon solvent to clean the stained oil of nuts and screws, BB-2100 apply a thin film on the head part of screws, then check the torques. \* The material of nuts and screws: Iron.

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## HEAT RESISTANCE:

TEMPERATURE	TORQUE	30MIN	60MIN	90MIN
60°C	8MM	39	33	28
60°C	12MM	42	36	31
40°C	8MM	44	39	36
40°C	12MM	43	41	38

\* Use 2kg-cm torque to fix the assembly (specimens already applied), Lay it for 5 days at room temp, then heat to 60°C and check the torque at 60°C.

## RESTANCE TO CHEMICALS:

CHEMICAL	TEMPERATURE	TORQUE	TIME	ORIGINAL TORQUE
GASOLINE	30°C	8-12MM	24	97-104
WATER	30°C	8-12MM	24	80-85
OIL	30°C	8-12MM	24	128-134

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## INDUSTRIAL USE:

\* Widely used in the field as, Aircraft, Ships Vehicles and Electronic industing. \* The others are, TV, Washing Machine, Motorcycle, Camera, and ETC.

## PACKING:

200g. 1kg. 3kg. 15kg.