

S Bond™

INSTRUCTIONS

S Bond™ is a simple and effective one component pre-hydrolyzed silane primer for porcelain and ceramic restorations. It requires no mixing or other activation. Typically S Bond is used on a laboratory etched porcelain or composite restoration to link the restoration to a bonding resin.

Instructions for use.

Apply S Bond to a clean, dry surface, directly from the bottle by touching the restoration to the bottle tip, or with a brush. Dry with clean air. Apply a resin bonding agent (such as E Bond) to the S Bond primed surface according to manufacturers instructions.

If you wish to prepare a porcelain or glass surface for bonding that has not been hydrofluoric acid (HF) etched, options are:

A) Etch with HF per manufacturers instructions. (Caution: HF can be dangerous so follow manufacturers cautions.) Then apply S Bond as above.

or

B) Roughen the surface with a sandblaster (such as Danville's MicroEtcher) using aluminum oxide abrasive. If sandblasting is unavailable, use a coarse diamond burr. Then wash with 37% phosphoric acid, rinse with water, and dry. S Bond may now be applied.

Storage

The shelf life is 2 years. Store at room temperature (23°C; 74°F). Cap tightly to prevent loss of volatile components. Refrigerated storage will extend the shelf life.

MATERIAL SAFETY DATA SHEET

SECTION I - Product identification/preparation/company undertaking

Product details:

Trade name:

S Bond

Manufacturer/supplier:

Danville Materials
2021 Omega Rd
San Ramon, Ca. 94583 USA

Emergency information:

Mike Hayden
(800) 827-7940

SECTION II - Composition/Information of Ingredients

Chemical characterization: Solution of methacrylsilane in ethanol

Description: Clear liquid

Hazardous components:

CAS-Nr	Name	R-classification
64-17-5	Ethanol	R=11; F

SECTION III - Hazards identification

Highly flammable

Risk identification:

Special risks for human beings and environment: Vapours in high concentrations cause dizziness effects and sickness. Irritating for eyes and soft tissues. Strong cooling effect during evaporation. Fast resorption in stomach. Large amounts of swallowed solution may cause unconsciousness.

SECTION IV - First-aid measures

General information:

After skin contact:

After eye contact:

After swallowing:

After inhalation:

Seek medical advice, if symptoms occur, which can be caused by the product.

Wash with plenty of water and soap.

Rinse with plenty of water and consult a physician.

Seek medical advice immediately. If patient is conscious, let him vomit.

Let patient breathe fresh air.

SECTION V - Fire fighting measures

Vapours cause explosive mixtures with air

Extinguishing media: CO₂, water

Protective equipment:

SECTION VI - Accidental release measures

Personal precautions:

No smoking, keep away from heat and flames, prevent electrostatical charge.

Environmental precautions: Do not wash

down sink.

Methods for cleaning up:

Wipe out with absorbent material.

Additional information:

SECTION VII - Handling and storage

Handling

The product should only be supplied or handled to dentists or dental technicians or upon their instructions.

Handling procedures:

No procedures, if correctly handled.

Recommendation for fire and

Keep away from heat and flames. Prevent electrostatical charge.

explosion protection:

Storage:

Store in a dry place, at room temperature, store away from food stuffs.

Requirements at storerooms and containers:

Requirements for storage with other products:

Take notice of regulations of the VbF, TRbF 110

Additional storage conditions:

Keep containers closed

Storage classification:

3 A (flammable liquids)

VbF-classification:

Group B

SECTION VIII - Exposure controls/personal protection

Additional information for technical plants:

Components with limits of values to be supervised at the workplace:

CAS-Nr.	Name	%	art	value	unit
64-17-5	Ethanol	94	MAK	1000 or 1900	ml/m ³ (ppm) mg/m ³

additional information:

Personal protective equipment: Use non flammable clothes.

General measures of protection
and hygiene:

Normal hygienic measures

Respiration:

Hands:

Rubber gloves

Eyes:

Protective goggles

SECTION IX - Physical and chemical properties

Appearance

Form:

liquid

Color:

colorless

Odor:

characteristical alcoholic

Information on change in the physical state

Melting point/melting range:

Value	Unit	Method
-114	°C	

Boiling point/boiling range:

78

°C

Flash point

12

°C

Danger of explosion:

3.4 to 15.0

% vol

Density:

0.8

g/cm³

Vapor pressure:

60

mbar

Viscosity:

1.2

Pas

pH:

3.0

Solubility immiscibility with:

organic solvents

Water:

soluble

Content of solvents:

Organic solvents:

ethanol

SECTION X - Stability and reactivity

Avoid heat, direct sunlight

Incompatibility with:

peroxides, metal powders, strong oxidizers,
free radical initiators.

Hazardous decomposition products:

not known

SECTION XI - Toxicologic information

Allergic reaction to methacrylate by chronic exposure to product are possible

Acute toxicity:

LD₅₀ (oral) rat 7,080 mg/kg

Primary irritation:

Skin:

Contact: X; strong irritating

Eye:

Strong irritating

Inhalation:

Possible toxic when inhaled. In high concentrations:
sickness, drunkenness.

Ingestion:

Possible toxic when swallowed, in large amounts
sickness, drunkenness.

Sensitization of product:

Allergic reactions to methacrylates possible after
continuous exposure.

Additional toxicological

information:

No data known

SECTION XII - Ecological information

General information No data known
Classification of water Do not rinse it in groundwater or
endangerment: multifunctional water system.

SECTION XIII - Disposal consideration

Product:
Recommendation; Use proper landfill disposal or incineration in
accordance with local, state and federal
regulations

Disposal key number:
Uncleaned packaging:
Recommendation:

SECTION XIV - Transport information

Transport by street/railway Class 3
Transport by ship Class 3.2
Transport by aeroplane Class 3

SECTION XV - Regulatory information

Classification according to
National Prescriptions:
Classification according to VbF: Class B

SECTION XVI - Other information

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.



D A N V I L L E
M A T E R I A L S

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