

Description

Sylmasta AB Original Epoxy Putty Stick has multiple uses in repair, maintenance and manufacturing. The putty is ceramic-filled, making it harder wearing and stronger than other putties. It has a work time of up to two hours, allowing more of the putty to be mixed, shaped, formed and applied before curing begins. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed, or painted.

Suitable for interior or exterior use, AB Original bonds to metal, brick, concrete, wood, masonry, porcelain, ceramic, most plastics and other materials. It cures on wet surfaces and underwater, and is resistant to chemicals, hydrocarbons and temperature extremes. It contains no solvents or VOC's, is non-flammable, releases no noxious fumes and it won't shrink or pull away when setting. The unused portion stays fresh for future use when saved in its original packaging.

General Repair Applications

- · Repairing damage and filling gaps in concrete, brick and metals
- · Protecting parts against corrosion and chemical attack
- · Levelling unstable machinery, sinks and basins
- · Sealing cable glands and joints, insulating electrical components
- · Carrying out underwater repairs to joints and tiles
- · Making wet surface repairs to boats and other vessels
- High strength bonding between materials

Advantages

- · Stick format eliminates the need to measure and mix separate parts
- Two hour cure time enables longer to work with the putty
- Can be machined
- · Smooth finish, with good adhesion
- · Can be worked without cracking or tearing
- Bonds to metal, wood, brick, most plastics and many other materials
- Available in White, Black or Grey

Directions for Use and Packaging

AB Original Stick is supplied in an easy-to-use, pre-formatted 200g stick combining Part A and Part B in equal measures. To use, cut the required amount of putty from the stick and knead by hand until uniform in colour. Whilst soft, apply the mixed putty to the area requiring repair. For AB Original Stick in bulk quantities above 10kg, please contact Sylmasta.

Pack Size

1 x 200g stick

5 x 200g sticks 25 x 200g sticks

50 x 200g sticks

Product Code

AB-STICK-colour-200g AB-STICK-colour-1kg AB-STICK-colour-5kg AB-STICK-colour-10kg

Technical Data

Working time	1.5 - 2 hours at 20°C	
Cure time (firm)	4 hours at 20°C	
Cure time (hard)		
Full cure		
Application temperature	+5°C to +35°C Cure speed will be quicker above 35°C and slower below 5°C	
Service temperature		
Continuous	20°C to +130°C	
Intermittent	20°C to +300°C (dry)	
Specific gravity		
Shore D Hardness		
Tensile Strength		
Compressive Strength	80 MPa	
Lap Shear Strength (steel)	3.5 MPa	
Typical properties: for information only; not for specification purposes.		

Storage

AB Original Stick should be stored out of direct sunlight in dry frost free conditions of temperatures between 15°C and 20°C. Under such conditions, shelf life will be 18 months from the date of manufacture.

Colour Key

WHITE = White

BLACK = Black

GREY = Grey

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.

Tel: +44 (0)1444 831459www.sylmasta.netEmail: sales@sylmasta.comSylmasta Ltd, Halland House, Dales Yard, Lewes Road, Scaynes Hill, ENGLAND, RH17 7PG

Pipe Repair Applications

- Sealing large holes and cracks in pipework
- Repairing surface damage for improved pipeline integrity
- Encapsulation of leaking joints
- Use as a sacrificial layer in chemically aggressive environments
- Repairing cast iron gutters, down pipes and railings



Cut

Remove the protective film from the stick and cut off the required amount of putty for the application



Mix

Wearing gloves, knead the putty together until it is a uniform colour and completely streak free. This will take approximately 5 minutes



Use

Apply mixed putty to the area requiring repair. AB Original can be worked with tools and smoothed with water if necessary

SYLMASTA .net Product Code: AB-STICK

maintenance products

TECHNICAL DATA SHEET

DiethleneglycolP

DibutylphthalateE

Chlorinated ParaffinE

HexaneE

Ethyl Acetate.....F

Key: E = Excellent

F = Fair

G = Good

P = Poor

Health & Safety

AB Original Stick consists of epoxy resins and hardener systems. Wear rubber or plastic coated gloves and refer to the Safety Data Sheet.

10% Acetic AcidP

Sodium HypochloriteE

1.1.1. TrichloroethaneE

Ferric ChlorideE

WaterE

Sea Water.....E Linseed Oil.....E

Castor Oil.....E

PhenolP

CresolP

White SpiritE Xylene.....E AcetoneF Perchloroethylene.....E Turpentine.....F BenzeneG

Pipe Repair - Reinforcement of Heavily Corroded Pipeline

Pipe Repair - Sealing of Failed Pipe Repair Clamp via Encapsulation

external attack.

harsh environment.

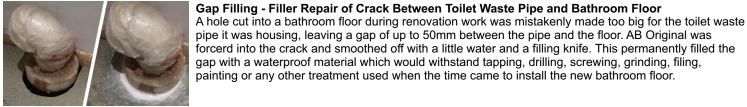
Chemical Resistance

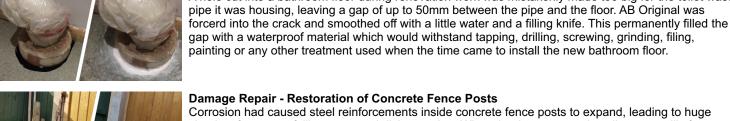
10% Sulphuric Acid	E
50% Sulphuric Acid	
Concentrated Sulp Acid	
10% Hydrochloric Acid	
10% Nitric Acid	E
10% Phosphoric Acid	G
10% Sodium Hydroxide	E
5% Aluminium Sulphate	
Brake Fluid	
Petrol	
Crude Oil	E
Ammonia (Household)	E
Ammonia (s.g. 0.88)	P
Creosote	E
Methanol	
Ethanol	F

Case Studies









Damage Repair - Restoration of Concrete Fence Posts

Corrosion had caused steel reinforcements inside concrete fence posts to expand, leading to huge chunks of concrete falling away and disintegrating. When the time came to install a new trellis fence, the homeowner did not want to undertake the mammoth and costly task of removing and replacing every concrete post. Instead, they filled the damage using AB Original. The putty not only replaced the missing concrete but offered greater protection against future corrosion to the steel rods within.

A 600mm patch of heavy corrosion on the exterior of a steel pipe at a petrochemical plant in the Middle East meant that a breach of the line was imminent. To prevent this happening, a large amount of AB Original was applied to the pipe. When cured, the putty reinforced and strengthened the damaged section by rebuilding it back to its original thickness. The excellent chemical resistance of AB Original provided further protection for the pipe, acting as barrier against internal corrosion and a shield from

A 350mm effluent pipe running beneath a salt marsh was discovered to be leaking just one year after undergoing repair with a clamp. The wall of the pipe was now so thin that removing the clamp risked the collapse of the entire line and the escape of huge amounts of contaminated water into the marsh. AB Original was used to encapsulate the clamp. Pushing the putty firmly around the pipe sealed all holes and cracks and left a super-strength, hard-wearing material which could easily withstand the



Underwater Repair - Repairing a Cracked Wall Between a River and Trout Farm

The UK Environment Agency were alerted to a 700mm crack in an underwater wall between a river and a trout farm. This needed to be sealed so that the EA could obtain accurate recordings of how much water the farm was extracting from the river, and to ensure extraction staved within legal limits. AB Original was pushed into the crack, starting above the waterline, moving below it and working right down to the riverbed. The putty easily adhered and cured underwater, permanently sealing the wall.

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.

Tel: +44 (0)1444 831459 www.sylmasta.net Email: sales@sylmasta.com Sylmasta Ltd, Halland House, Dales Yard, Lewes Road, Scaynes Hill, ENGLAND, RH17 7PG