

SIP PRIME

Kit for improving structural adhesive performance in fail-safe applications

SIP Prime is a surface treatment kit designed to enhance the performance of structural adhesives in applications that are failure-critical. SIP Prime has a successful service history in aerospace and nuclear applications.



The use of SIP Prime has a number of major benefits:

1. SIP Prime is a **quality assurance tool**. Its use provides a visible method of checking that optimum surface preparation is achieved prior to application of an adhesive.
2. SIP Prime **promotes the adhesion** of structural adhesives on many surfaces.
3. The use of SIP prime has been proven to **increase the durability of adhesive bonds** under accelerated aging test cycles such as humidity and salt-spray testing.

SIP Prime is an easy to use 2-part kit - the two components are mixed together and applied to the surfaces to be bonded. A quick visual check is then required; this will show the operator if the surfaces are acceptable substrates for bonding or if they need further preparation either by abrasion, degreasing or another form of surface treatment.

The adhesion promoting function of the SIP Prime will then produce an effect that is additive to the benefits achieved through optimum surface preparation, which result from the SIP Prime being used as a quality assurance tool. Testing of bonds prepared using SIP Prime consistently show that increased bond durability results from the use of the SIP Prime Kit.

Typical surfaces on which SIP Prime is commonly used are Steel, Aluminium and Composites.

/2..

Instructions :

1. Prepare the surface to be bonded by degreasing and lightly abrading
2. Remove dust and then lightly spray the surface with SIP PRIME
3. Remove the black cap from Part A
4. Add the liquid from Part B to Part A
5. Attach the white spray cap to Part A
6. Shake the bottle
7. Spray SIP Prime onto the area to be bonded
8. Check to see if the SIP Prime forms a smooth even layer over the entire surface of the area to be bonded; if this is the case then preparation is good and you can proceed with the bonding process
9. If the SIP Prime remains in discreet droplets then the surface preparation of the area to be bonded is not to an adequate standard and effective bonding cannot take place. Further preparation is necessary then followed by a re-test with SIP Prime

More Preparation Required
Surface not adequate for bonding



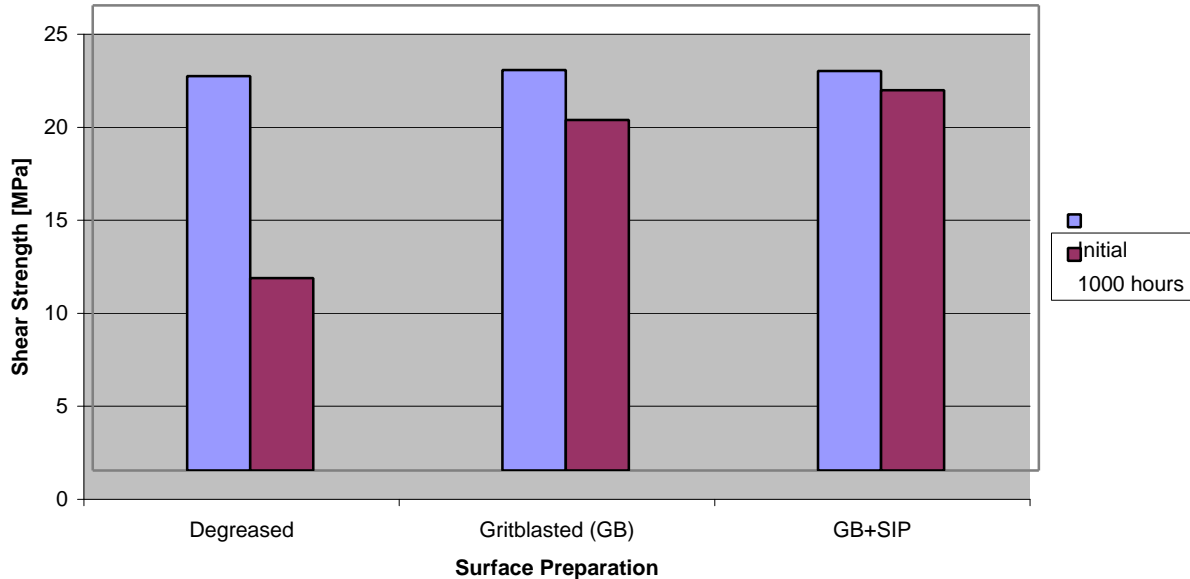
Preparation Good
Effective surface now good for bonding - proceed with bonding

10. Once SIP Prime has shown that surface preparation is good, remove excess SIP with a clean dry tissue and begin the application of adhesive.
11. Use mixed SIP Prime kit within 8 hours

/3...

See below the performance of a toughened two part acrylic adhesive, V6024, in a salt spray test. Use of the SIP Prime provides improved durability of the bond after 1000hrs.

**Bondmaster V6024- Shear Strength after salt spray tests at 25°C, 5% NaCl solution
AI5251 H3, adhesive cured at 23°C, strength at 23°C**



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