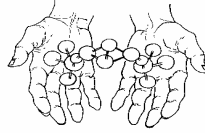


ManuSpec Company, Inc.

* **MSBond** *
Industrial Adhesives
"Permanent Adhesion"

* **MSCoat** *
"Tomorrow's Release Agents
Today"

* **MSSeal** *
Pipe Sealant and
Pipe Gasket Lubricant



"A World of Chemical Solutions"

LAB FORM / QUESTIONNAIRE

PROJECT# _____

CUSTOMER _____ DATE _____ SALES REP _____

ADDRESS _____

Phone _____ Fax _____

Contact _____

Current Annual Usage _____

Price Ranges? _____ to _____

Probability of Close _____

Estimated Sales Cycle _____

Volume: _____ **Application Technique:** _____

Applied thickness _____

Volume _____

Hand Mixing

Meter Mix

Cartridges

-Cartridge Type

-Cartridge Volume

Other: _____

Material Requirement:

- Two-component RT Cure (preferable, mandatory, option)
- Two-component Heat Cure (preferable, mandatory, option) Highest Temperature _____
- One-component Heat Cure (preferable, mandatory, option) Longest Acceptable Cure _____

Current Product: _____

TB, MSDS Available

Manufactured: _____

Properties to Improve:

Most Important Property(ies): Viscosity Cure Rate Other _____

Component Description:

drawings/specimens preferred

Substrate(s)Description:

specimens preferred

Surface Preparation:

- Solvent Cleaning Priming Acid etching None Sanding Other

Environment\Exposure:

- Room temperature High temperature (please, specify) Low temperature (please, specify)
 Water or moisture Chemicals (please, specify) Thermal shock

- Vibration
- Thermal cycling (please, specify the temperature range)

Mechanical impact

- Abrasion
- Other

Color Preference / Finish:

- Color(s)
- Matte
- Glossy
- Other
- None

Mixed Ratio:

- Non-fractional (1/1, 2/1, 4/1,pbv) other: _____
- Customized (please, specify) _____
- Meter mix machine, current ratio _____ (preferable, mandatory, option)

Viscosity:

- Current mixed viscosity _____ (preferable, mandatory, option)
- _____ Low viscosity (< 1,500 cP) _____
- _____ Medium viscosity (1,500 cP to 20,000 cP)
- _____ High viscosity (> 20,000 cP)
- _____ Paste _____ Gel

Application Temperature:

- Room temperature
- Other
- Batch Size _____

Working Time: Current: _____ Acceptable Range _____ to _____

Handling Properties:

- Time to set _____
- Tack-free time _____
- Time to handle cured parts _____
- Complete cure time _____

Property Ranges:

- | | |
|---|---|
| <ul style="list-style-type: none"> ____ - ____ Tensile strength (tensile modulus) ____ - ____ Flexural strength (flexural modulus) ____ - ____ Comp strength (and/or comp modulus) ____ - ____ Elongation @ break (flexibility) ____ - ____ Hardness ____ - ____ Impact strength ____ - ____ Bond shear strength ____ - ____ Peel strength ____ - ____ Tensile pull off strength ____ - ____ Heat distortion (deflection) temperature | <ul style="list-style-type: none"> ____ - ____ Glass transition temperature ____ - ____ Thermal conductivity ____ - ____ Coefficient of thermal expansion ____ - ____ Linear (or volume) shrinkage ____ - ____ Dielectric constant (frequency: ____) ____ - ____ Dissipation factor (frequency: ____) ____ - ____ Volume resistivity ____ - ____ Surface resistivity ____ - ____ Dielectric strength ____ - ____ Arc resistance |
|---|---|

Testing:

Type _____
Length _____

Describe: