

Date \_\_\_\_\_ 20\_\_\_\_

Company \_\_\_\_\_

Contact \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Mobile \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

## MIXING EXPERIENCE (describe your present mixing method)

Type of Mixer & Size \_\_\_\_\_

How is this method performing? \_\_\_\_\_

## SOLID & LIQUID PRODUCT CHARACTERISTICS

Product is:  Dry  Wet  Paste  Mastic Compound

### CAPACITY

by Volume \_\_\_\_\_  ft<sup>3</sup> or liters per \_\_\_\_\_ hour(s)

or by Weight \_\_\_\_\_  lbs. or  kgs. per \_\_\_\_\_ hour(s)

### SOLID COMPONENTS

Name(s) \_\_\_\_\_

Bulk Density (lowest/min.) \_\_\_\_\_  lbs./ft<sup>3</sup> /  g/cc

Bulk Density (tapped/max.) \_\_\_\_\_  lbs./ft<sup>3</sup> /  g/cc

Other Characteristics:  Friable  Dusty  Cohesive

Abrasive  Paste  Agglomerates  Hygroscopic  Oxidizes

If a Paste, Mastic or Compound:

Viscosity \_\_\_\_\_ cps @ \_\_\_\_\_ °F / °C

Rheology:  Thixotropic  Pseudoplastic  Dilatent  Newtonian

If Solids:

Particle Size Distribution:  mesh or  μ microns

\_\_\_\_\_ % less than \_\_\_\_\_

\_\_\_\_\_ % less than \_\_\_\_\_

\_\_\_\_\_ % less than \_\_\_\_\_

### PRESSURE

Mixing is performed under:

atmospheric pressure

vacuum \_\_\_\_\_ "Hg

pressure \_\_\_\_\_ psig

### TEMPERATURES

Incoming product \_\_\_\_\_ °F / °C

During mixing \_\_\_\_\_ °F / °C

After mixing \_\_\_\_\_ °F / °C

### LIQUID ADDITION

Are liquids added during the process?  Yes  No

Name(s) \_\_\_\_\_

Liquid Viscosity \_\_\_\_\_ cps @ \_\_\_\_\_ °F / °C

Quantity \_\_\_\_\_  usg /  liters

Rate of Addition \_\_\_\_\_  gpm /  lpm

### HEATING/COOLING JACKET

Required for heating to \_\_\_\_\_ °F / °C

Required for cooling to \_\_\_\_\_ °F / °C

Medium:  water  steam  hot oil

Jacket Rating:  14.7 psig non-code

ASME / PED / ATEX code stamped for \_\_\_\_\_ psig / bar

### DISCHARGE The final product is a:

free-flowing powder that can be *bottom discharged*.

free-flowing liquid or paste that can be *bottom discharged*.

non-free flowing powder that must be *dumped*.

solid, mastic or compound that will be *dumped*.

solid, mastic or compound that will be *extruded with a screw*.

### CLEARANCES

Clearance below discharge \_\_\_\_\_ "

Height/ceiling restrictions \_\_\_\_\_ "

### PRODUCT CONTACT MATERIAL

304,  316  316L Stainless Steel

Other Alloy \_\_\_\_\_

Coating \_\_\_\_\_

### EXTERNAL & SUPPORT MATERIALS

mild steel  304  other \_\_\_\_\_

### SURFACE FINISHES

Internal:  mill,  2B,  #4,  bead blast,  \_\_\_\_\_ grit,  \_\_\_\_\_ Ra (μ inch)

External:  mill,  2B,  #4,  bead blast,  \_\_\_\_\_ grit,  \_\_\_\_\_ Ra (μ inch)

External Structural:  coated,  other \_\_\_\_\_

### UTILITIES AVAILABLE

Electrical \_\_\_\_\_ voltage, \_\_\_\_\_ phase, \_\_\_\_\_ Hz

Vacuum \_\_\_\_\_ "Hg, \_\_\_\_\_ cfm

Air \_\_\_\_\_ psig, \_\_\_\_\_ cfm

Water \_\_\_\_\_ °F / °C, \_\_\_\_\_ gpm, \_\_\_\_\_ psig

Steam \_\_\_\_\_ psig, \_\_\_\_\_ lbs./hour

### ELECTRICAL CLASSIFICATION

Will *mixer* and *controls* be in different areas?  Yes  No

Motor Classification:

non-classified TEFC

Class:  Cls. I (gas/vapor),  Cls. II (dust)

Division:  Div. 1 (Class substance is present in normal conditions)

Div. 2 (Class substance is present in abnormal conditions)

Electrical Enclosures:  NEMA-12,  NEMA-4 (washdown)

NEMA-4X (washdown & corrosive),  NEMA-7&9 (XP)

NEMA-4,7&9,  other \_\_\_\_\_

### SUPPORT EQUIPMENT REQUIRED

Vacuum System

Solvent Recovery

Heating

Cooling

Liquid Addition

Lump Breaker

Inert Gas Purge

Solids Sampler

Loading/Unloading

Controls

### PROJECT SCHEDULE

Start-Up Scheduled for  1<sup>st</sup>  2<sup>nd</sup>  3<sup>rd</sup>  4<sup>th</sup> Qtr., 20\_\_\_\_

Is Project Funded:  Yes  No

Installation Location (State or Country) \_\_\_\_\_