

URC

UNITED
REFRACTORIES CO.



DELIVERS

OVER 40 YEARS OF PERFORMANCE DESIGNED SOLUTIONS

UNI-GUN 85 GP Gunned Plastic

EXPECT 4U SERVICE



EQUIPMENT AVAILABILITY

- BSM Gun Rentals / Spare Parts
- Hot or Cold Gun Equipment
- Delivery

EXPERIENCED EQUIPMENT TECHNICIANS

- Over 60 Years of Combined Know-How
- Support On-Site Installations
- Training and/or Demos Available



EMERGENCY MOBILIZATION

- Conveniently Located
- 24/7 Response

ENHANCED UNI-GUN 85 GP TECHNOLOGY

- Lower Rebounds/Dusting
- Less Clogging In Gooseneck
- Gunned Hot or Cold
- Heated Immediately After Installation

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OVER 45 YEARS OF PERFORMANCE DESIGNED SOLUTIONS

APPLICATION: MAJOR SECONDARY PRODUCER

LOCATION: NORTHEAST, USA

UNI-GUN 85 GP Gunned Plastic

99,000 lbs. / Low Rebounds / No Clogs!



PROJECT

- 200,000 lb. Scrap Well Melter
- **20% Rebounds** on Upper Walls with Ceramic Anchors (18-inch centers)
- **15% Rebounds** on Belly Band without Ceramic Anchors
- Up to 13.5" Thick (feathered)

EXPERIENCE

- **52 Installs Over Last 37 Months**

APPROACH

- **Enhanced GP Technology**
 - Proprietary plasticity
 - Lower rebounds
 - Less clogs
 - Heat after install
- **Equipment Availability**
 - BSM gun rentals/parts
 - Hot/Cold Gun Equipment
 - Delivery
- **Experienced Technicians**
 - Over 60 years combined know-how
 - Support on-site installations
- **Emergency Mobilization**
 - 24/7 Response
 - Centrally Located





OVER 40 YEARS OF PERFORMANCE DESIGNED SOLUTIONS

APPLICATION: ALUMINUM

LOCATION: MIDWEST, USA

UNI-GUN 85 GP Gunned Plastic

Less Clogging... Less Rebounds... More Production!

BACKGROUND ❖

A major aluminum producer has the following parameters...

- **Furnace:** 155,000 lbs. Charge Well Melter
- **Repair Area:** ... Lower / Upper Sidewalls, hot well and charge well
- **Last Repair:** ... Competitive 80% Al₂O₃ gunned plastic

URC DELIVERED VALUE ❖

- **Product:** **UNI-GUN 85 GP** Gunned Plastic
- **Anchoring:** .. None... roughed surface and sprayed phos-bonded mortar on existing lining
- **Repair Thickness:**5" veneer to 13.5" thick
- **Dryout:** With an accelerated heat-up, successfully dried out within tight repair schedule

URC ❖ ADVANTAGES

- Low Rebounds:** 15% average
- Fast Gun Time:** 50 min. for 6000 lbs.
- Excellent Adherence & Compaction** ... Minimizing laminations and improving performance
- Data Sheet Highlights:** Al₂O₃: 80.9%; P₂O₅: 4.2%;
CCS after 1500° F: 7000 psi
- No Clogging in Gooseneck:** Enabling the installer greater run time



CAPTIONS – LEFT TO RIGHT

- Aluminum melter lower sidewall repair
- Top ring of round top charge melter repair
- UNI-GUN 85 GP rakes easily into BSM equipment



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URC GP Gunned Plastic

The Optimizer

Makes A GREAT Process BETTER!

Since 2017, URC has successfully supplied millions of pounds of GP Gunned Plastics to over 70 jobs nationwide.

Now, URC introduces **The Optimizer** . . .
a proprietary process improvement that reduces costs, increases speed and improves install variables.

Features

Benefits

- | | |
|---|---|
| <ul style="list-style-type: none"> • Bulk Bag Packaging
<i>No cardboard totes</i> | <ul style="list-style-type: none"> • Improved productivity and less waste. |
| <ul style="list-style-type: none"> • NO RAKING!
<i>Direct feed to BSM Gun</i> | <ul style="list-style-type: none"> • Safer install, improved ergonomics and less labor required. |
| <ul style="list-style-type: none"> • Uniform/Consistent Feed to Gun | <ul style="list-style-type: none"> • Lower rebounds, less surging and no tape balls! |
| <ul style="list-style-type: none"> • Higher Install Rate | <ul style="list-style-type: none"> • Up to 2 times faster! |

The Optimizer Service Package

Available exclusively from URC, together with our:

- BSM Gun Rental
- "Best in class" On-site Support
- Rapid Delivery Response

URC|4U SERVICE

URC's Line of GP Gunned Plastics

- UNI-GUN 85 GP AL
- UNI-GUN 85 GP
- UNI-GUN BLU J GP
- UNI-GUN GREEN GP



Scan to See an Optimizer Case History

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URC GP Gunned Plastic

The Optimizer

+ UNI-GUN 85 GP AL = *Maximum Performance!*

CASE HISTORY

Aluminum Furnace Repair (60,000# UNI-GUN 85 GP AL)

- **UNI-GUN 85 GP AL** reduces metal penetration and adherence while improving cleanability.
** The first "non-wetting" gunned plastic!*
- Using **The OPTIMIZER**, the crew achieved a 10,000#/hr. rate
** Typical practice is approximately 6,000#/hr.*
- Super Sacks were used with **The OPTIMIZER**, instead of boxes, using a 3-man crew with no raking.
** Typical is 4-man crew*
- With improved consistency of the **OPTIMIZED UNI-GUN 85 GP AL**, the flow, quality and consistency was vastly improved, with NO TAPE BALLS used.
** Typical usage is 50-100 tape balls!*

- 66% Faster
- Reduced Labor
- Increased Safety
- Less Waste
- Higher Quality
- Increased Productivity



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Scan to See an Optimizer Deliver Sheet