



# Adhesive Solutions for Sign and Display Challenges

Taylor Santa and Rod Fleming  
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# Agenda

- IPS Overview
- Why IPSA
- Sign and Display Challenges
- Types of Bonding
- Structural Product Overview
  - WO45, WO30/31, WO46C, SG800
- Choosing the Right Adhesives
- Safety
- Questions

# IPS Corporation Overview

- Established in 1954, as the inventor of solvent cement for PVC pipe applications.
- Expanded over 70 years to create a structural and surfacing adhesives division, IPS Adhesives, to manufacture methacrylic structural and surfacing adhesives
- Manufacturing plants in Durham NC, Largo FL, Gardena CA, and Newcastle upon Tyne UK are all ISO 9001 certified.



# IPS Adhesive Brands



Powerful adhesive technology for all  
Sign and display assembly projects



Professional primerless MMA  
adhesives for a wide range of  
structural applications



Innovative structural bonding  
compounds for boat production



400+ Adhesive colors for quartz,  
natural stone, sintered surface  
and more



Specialist color matched Installation  
and Aftercare products for virtually  
every work surface



# Why IPS Adhesives?

- High Performance Products
- Full-Service Lab and Testing Capabilities
- Technical Team
  - On-site trainings
  - Online support
- Sales Collateral
- Rep Training

# Sign and Display Challenges

- **Substrate Compatibility** – Bonding dissimilar materials (acrylic to metal, polycarbonate to aluminum trim, ABS to various substrates)
- **Vertical Application Issues** – Adhesive sagging or running on vertical surfaces during assembly
- **Working Time Constraints** – Need for quick fixture times without sacrificing bond strength
- **Environmental Exposure** – Outdoor durability requirements (UV resistance, temperature extremes, moisture)
- **Paint/Powder Coating Processes** – Adhesives that can withstand high-temperature finishing cycles
- **Optical clarity Requirements** – Clear bonds for illuminated signs and polycarbonate lettering
- **UL Compliance** – Meeting electrical sign assembly safety standards
- **Production Efficiency** – Balancing cure times with throughput demands

# Types of Sign and Display Bonding

- Solvent Welds
  - 1 Part
  - Thinner Viscosity
- Multi-Part Adhesives
  - 2 or 3 Parts
  - Typically Mix by Hand
  - Plastic Bonding
- Structural Adhesives
  - 2 Part
  - Typically Uses Cartridge and Dispensing Gun
  - High Strength for Critical Structural Bonds

# Weld-On 45

- High Strength 2-Part MMA Structural Adhesive
  - 4:1 by volume mix ratio
- Working Time – 5-6 minutes
- UL Approved for Electrical Sign Assembly
- WHY WOULD ONE CHOSE 45 OVER 30/31?
- HELP WITH MORE POINTS ON THIS SLIDE



# Weld-On 30/31

- High Strength 2-Part MMA Structural Adhesive
  - 10:1 by volume mix ratio
- Multiple Working Times
  - Weld-On 30 – 4-5 minutes
  - Weld-On 31 – 13-17 minutes
- Superior Sag Resistance on Vertical Surface Application
- Sandable and Paintable after cure
- UL Approved for Electrical Sign Assembly



## Need More Time?

**Flexible Open Times Mean Less Stress, More Efficiency**

Everyone could use more time. Weld-On Sign & Display gives it to you. Super sag resistance and superior strength in a range of working times to suit your project needs.

It's the **right** time to switch to **more** time.

See for yourself with a free demo.  
Contact: [ken@davismarketinginc.com](mailto:ken@davismarketinginc.com)



**GET IT TOGETHER... BETTER.**

Explore our full line of products  
at [assemblyadhesives.com](http://assemblyadhesives.com)



# Weld-On 46C

- High Strength, Optically Clear 2-Part MMA Structural Adhesive
  - 10:1 by volume mix ratio
- Low Sag
- Short Working and Fixture Time
  - Working Time – 6-9 minutes
  - Fixture Time – 15-25 minutes
- UL Approved for Electrical Sign Assembly
- Great for Trim Cap to Polycarbonate Lettering



# Scigrip 800 Series

- High Strength 2-Part MMA Structural Adhesive
  - 10:1 by volume mix ratio
- Multiple Working Times
  - SG800-05 – 4-6 minutes
  - SG800-15 – 13-20 minutes
- Designed to Withstand High Heats Associated With Paint Bake and Powder Coating Cycles
  - Continuous heat up to 149C (300F)
  - Intermittent exposure up to 204C (400F)
- Sag Resistance on Vertical Surfaces



# Choosing the Right Adhesive

- Ask “What are you bonding?”
- Identify the Substrates
  - ABS, Acrylic, Metal, Polycarbonate
- Determine Desired Specifications
  - Viscosity
  - Working/Cure Time
  - Color
- What are the Environmental Conditions
  - Temperature/Humidity
- What Conditions will the Bonded Parts See?
  - Wet Conditions
  - Temperatures
  - Chemical Exposures





# Safety When Handling Adhesives

- MMA Adhesive Personal Protective Equipment (PPE)
  - Safety Glasses
  - Gloves
- Environment
  - Dispense adhesive in well ventilated areas
  - Do not dispense in small, tight areas



GHS02  
Flammable



GHS03  
Health Hazard



GHS04  
Corrosive



GHS05  
Serious Health  
Hazard

IPSA Confidential



Thank you for  
your attention

