

**ABRASIVE  
BLASTING**

**PROTECTIVE  
COATINGS**



**INDUSTRIAL  
APPLICATION**

### **INTRODUCTION:**

We would like to introduce our company as contractors for engineering services for Government, Semi-Government & Private Organizations of repute. Our in-house capabilities and enriched engineering staff enable our organization to takeover total responsibility for diversified projects of varied dimensions at our work and clients site, through our own resources.



**Elsons Corporation** has executed jobs for many reputed, private and government organizations throughout Pakistan as per local standards, specification & international standards for quality control. We have facilities for local transportation of materials apart from our in house arrangements for material handling.

**Abrasive Blasting** is a process used to clean surfaces, remove rust, oxidation, or finishes, preparing surfaces for new coating applications. It is highly effective for large equipment, surface prepping and paint/rust removal.

**Abrasive Blasting also known as Sand Blasting/Grit Blasting Or Media Blasting.**

• **Abrasive Blasting is used to:**

1. Make a rough surface smooth
2. Make a smooth surface rough
3. Shape a surface
4. Remove surface contaminants or material, like Paint, Rust, or Residue
5. Clean or prepare a surface for primer and final coating

• **Different Medias for Abrasive Blasting:**

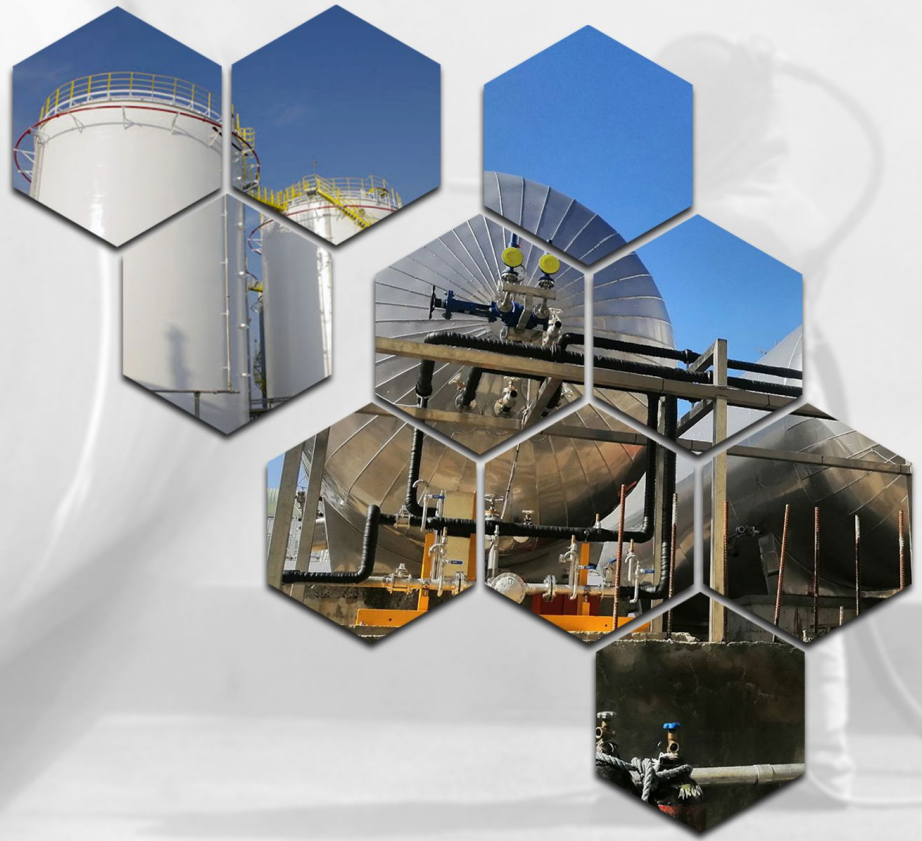
1. Silica Sand
2. Copper Slag Grit
3. Steel Shots
4. Garnet





### **INDUSTRIES SERVED:**

1. Architectural
2. Construction
3. Infrastructure
4. Events
5. Entertainment
6. Automotive
7. Commercial
8. Manufacturing
9. Industrial
10. Architectural Furniture
11. Marine & Boats



### **SANDBLASTING AND PAINTING:**

1. Chemical Tanks
2. Diesel Tankers
3. Fabricated Steel
4. I Beam
5. Heavy Structure
6. Sheds
7. Vessels

### **STANDARDS OF ABRASIVE BLASTING**

<b>Description</b>	<b>Swedish SIS 05 5900</b>	<b>American SSPC-SP</b>	<b>International ISO-8501-4</b>
White Metal	Sa 3	SSPC-SP 5	Sa 3
Near White Metal	Sa 2 $\frac{1}{2}$	SSPC-SP 10	Sa 2 $\frac{1}{2}$
Commercial Blasting	Sa 2	SSPC-SP 6	Sa 2
Brush-Off Blast	Sa1	SSPC-SP 7	Sa1
Power Tool Cleaning	St 3	SSPC-SP 3	St 3
Hand Tool Cleaning	St 2	SSPC-SP 2	St 2

### PAINT APPLICATION METHODS:

1. Airless Spray
2. Conventional Spray
3. Roller Brush
4. Brush

### PAINT APPLICATION TESTING METHODS:

1. Wet Film Thickness
2. Dry Film Thickness
3. Peel Test
4. Adhesion Test

### CHECKLIST FOR ADHESION:

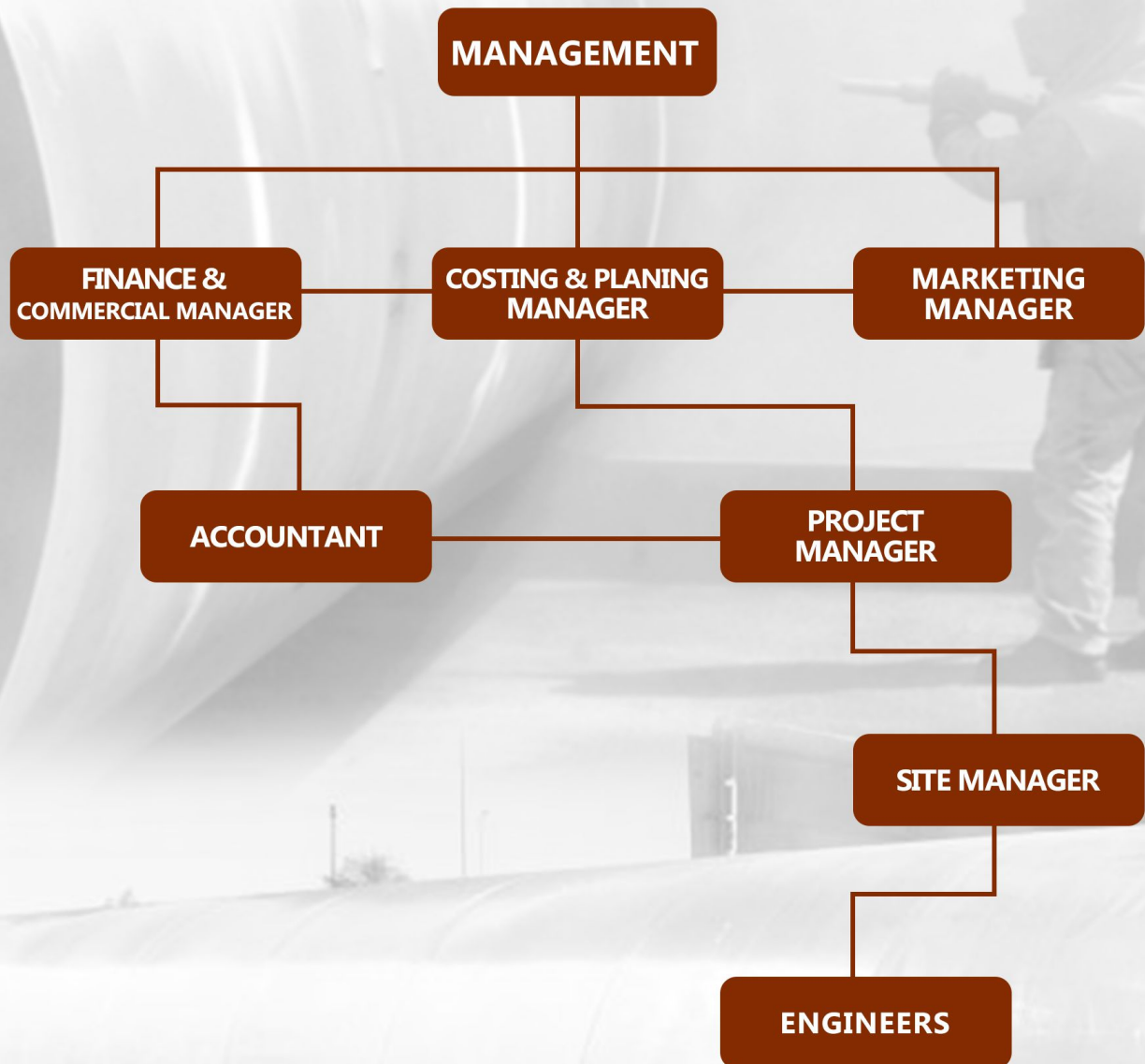
1. Excessive substrate moisture content.
2. Improper sanding procedures polish sanding substrate.
3. Incompatible coatings within the finishing system.
4. Insufficient curing and dry times.
5. Contamination of substrate.
6. Extreme temperatures.
7. Excessive dry film build.
8. Poor spray automation spray application.
9. Excessive pigment load in stains.
10. Incorrect catalization of coating.
11. Omitting scuff sanding between coats.
12. Natural oils and resins in teak, pine, etc.
13. High moisture content in 2k urethane coatings.
14. Unstable resin systems.



## PAINT MECHANISM

<b>Top Coat</b>	<ul style="list-style-type: none"> <li>• Resistant to Ion penetration</li> <li>• Alkali Resistant</li> <li>• Insulator</li> </ul>	50 $\mu\text{m}$
<b>Intermediate Coat</b>	Low moisture and vapor transfer rate	100 $\mu\text{m}$
<b>Primer</b>	<ul style="list-style-type: none"> <li>• Adheres to substrate</li> <li>• Resists corrosion</li> </ul>	20-50 $\mu\text{m}$
<b>Metal Surface</b>		





# **elsons**

## **ENGINEERING DIVISION**



### **HEAD OFFICE**

4th Floor, Plot 59-C, 24th Tauheed  
Commercial Street, Phase V, DHA,  
Karachi, Pakistan.

Ph: +92-21-35295552-4

Email: [purchase@elsons.com.pk](mailto:purchase@elsons.com.pk)

### **LAHORE OFFICE**

Office No.7, 11th Floor, Al-Hafeez  
Heights Plot 56-D/1, Sir Syed Road,  
Ghalib Road, Gulberg, Lahore.

Ph: +92-42-35751851-3

Email: [purchase@elsons.com.pk](mailto:purchase@elsons.com.pk)

### **RAWALPINDI OFFICE**

Offcie #414, 4th Floor, Kohistan  
Tower, Mehfooz Shaheed Road,  
Rawalpindi.

Ph: +92-342-2024250

Email: [purchase@elsons.com.pk](mailto:purchase@elsons.com.pk)

[www.elsons.com.pk](http://www.elsons.com.pk)