



## **AMBER SH – STRONG CATION EXCHANGE RESIN**

### **Art. 51755**

#### **Product Description**

AMBER SH is a strong cation exchange resin. It selectively exchanges positively charged ions (cations) in solutions, making it suitable for restoration and conservation applications where removal of metal cations, salt stabilization, and surface conditioning are required.

#### **Physical & Chemical Properties**

- Form: Spherical beads
- Matrix: Styrene–Divinylbenzene polymer
- Functional Group: Strong acid cation ( $-\text{SO}_3\text{H}$ )
- Particle Size:  $\sim 300\text{--}800\ \mu\text{m}$
- Moisture Content:  $\sim 45\text{--}60\%$
- pH Operating Range: 0–14
- Maximum Operating Temperature:  $\sim 35\text{--}100\ ^\circ\text{C}$

#### **Applications (Restoration & Conservation)**

- Removal of metal cations and salt deposits from stone, brick, plaster, and marble surfaces
- Stabilization of surface ions on wood and metal art objects
- Pre-treatment of water for surface cleaning and consolidant applications

#### **Application & Regeneration**

- Can be applied using column or batch methods
- Regeneration: Typically with strong acid (e.g., HCl or  $\text{H}_2\text{SO}_4$ ) depending on application
- Reversible and reusable with proper regeneration

#### **Advantages**

- ✓ Selective cation removal
- ✓ Wide tolerance to pH and temperature
- ✓ Reversible and reusable
- ✓ Surface-friendly for conservation applications

#### **Storage**

- Store in a cool, dry place away from direct sunlight
- Follow manufacturer's instructions before use

### **Professional use**