



**HYDA CON**  
Innovative chemical solutions

Technical Data Sheet

## HYDAFILLO EPX 13

### ABOUT HYDAFILLO EPX 13

**HYDAFILLO EPX 13** is an extra-clear epoxy adhesive in a thixotropic paste form, specially designed for securely filling and bonding marble, granite, quartz, ceramics, and natural stones. The product offers easy application, excellent spread ability, and delivers a glossy, bright finish. Both Part A and Part B are thixotropic, making it ideal for both horizontal and vertical applications. Suitable for indoor and outdoor use with minimal yellowing over time.

The product complies with **Legislative Decree No. 29/2017** and is approved for food contact. Additionally, **HYDAFILLO EPX 13** is low-odour, contains no long-term toxicity hazards, and includes low-risk labeling. The formulation is also LOW-VOC, aligning with modern environmental safety standards.

### SURFACE APPLICATION MATERIALS

- Natural & Engineered Stones
- Marble and Granite
- Stone and Engineered Stone
- Ceramics and Quartz
- Quartz Surfaces
- Porcelain and Tiles

### RECOMMENDED SURFACES / SUBSTRATES

- Marble and natural stone surfaces
- Ceramic, porcelain, and similar substrates
- Granite, quartz, and engineered stone
- Interior and exterior applications

### APPLICATION AREAS

- Residential & commercial stonework
- Countertops, cladding, and panels
- Vertical and horizontal joint filling
- Outdoor stone installations

### PRODUCT HIGHLIGHTS

- ❖ **EXTRA-CLEAR** – High transparency after curing
- ❖ **THIXOTROPIC** – Non-drip formulation, ideal for vertical surfaces

- ❖ **LOW-YELLOWING** – Suitable for indoor and outdoor use
- ❖ **FOOD CONTACT APPROVED** – Certified as per Decree 29/2017
- ❖ **LOW ODOUR & NON-TOXIC** – Safe for regular professional use
- ❖ **HIGH GLOSS** – Enhances aesthetic of treated surfaces
- ❖ **EASY APPLICATION** – Soft, spreadable paste
- ❖ **LOW VOC** – Complies with air quality standards

### TECHNICAL DETAILS

PROPERTY	HYDAFILLO EPX 13 VALUE
Viscosity (Part A) at 25°C	Thixotropic paste
Viscosity (Part B) at 25°C	Thixotropic paste
Density at 25°C (Part A / Part B)	1.1 / 1.0 g/cm <sup>3</sup>
Mixing Ratio (Resin : Hardener)	100 : 50 (by weight)
Gel Time in Bulk at 25°C	10–15 minutes
Tack-Free Time in Thin Layer at 25°C	Approx. 3h – 3h 30min
Hardness (Shore D) – ASTM D 2240	80
Yellowing Test (ASTM D904 – Qsun, 1 year outdoor)	Low
Minimum Reaction Temperature	+10°C
Minimum Temperature of Use (Post-Hardening)	-25°C
Maximum Temperature of Use (Post-Hardening)	+60°C
Working Time at 25°C (Polishing / Cutting)	24 hours
Adhesion on Marble after 8 hours	11 MPa
Adhesion on Marble after 24 hours	12 MPa
Adhesion on Quartz after 8 hours	13 MPa
Adhesion on Quartz after 24 hours	13 MPa
Adhesion on Ceramic after 8 hours	16 MPa
Adhesion on Ceramic after 24 hours	17 MPa

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION GUIDELINES

1. Ensure the surface is clean, dry, and dust-free.
2. Avoid metallic surfaces such as copper or brass in pump parts.
3. Do not use PVC-based plastics; use corrosion-resistant materials only.
4. Always extract Part A and Part B in the correct weight ratio using clean tools.
5. Mix thoroughly until a uniform blend is achieved.
6. Apply immediately after mixing.
7. Close both cans after use. Use the black cap to reseal Part B after removing the lid.

### TOOL & EQUIPMENT CARE

- Clean tools with acetone or butyl acetate after use.
- Avoid prolonged exposure of product to air.
- Verify automatic pump ratios daily.
- Store the product in original sealed containers only.

### PRO TIPS & PRECAUTIONS

- ✓ Use gloves, safety goggles, and appropriate protective gear
- ✓ Refer to Safety Data Sheets for both Part A and B before use
- ✓ Do not expose to heat, humidity, or sunlight
- ✓ Avoid ingestion and prolonged skin contact
- ✓ Do not reuse empty containers

## PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

### AVAILABLE PACKAGING

- Dual-component tins of 1Ltr each.
- Suitable for manual or automated systems.

### SHELF LIFE

- Minimum 2 years when stored between 18–25°C, sealed and unopened
- Part B color stability guaranteed for 1 year

### STORAGE LIFE:

- Store in cool, dry place
- Keep away from direct sunlight and heat sources
- Keep containers tightly sealed when not in use

## **SAFETY & APPLICATION GUIDELINES FOR HYDAFILLO EPX 13**

### **1. PERSONAL PROTECTION**

- Always wear gloves, goggles, and face protection

### **2. EMERGENCY PROCEDURES**

- Skin Contact: Wash thoroughly with clean water
- Eye Contact: Rinse immediately and seek medical advice
- Inhalation: Move to fresh air and consult a doctor if needed

### **3. DISPOSAL**

- Do not discard in open environment
- Follow local regulations for disposal of chemical waste

## **MAINTENANCE GUIDELINES**

- Store correctly to retain product integrity
- Use calibrated pumps or weight-based mixing
- Avoid contamination between Part A and B
- Follow mixing instructions for best results

## **PERFORMANCE LIMITATIONS**

- Not intended for use on wet or contaminated substrates
- Not compatible with PVC equipment or copper-based parts
- Always conduct a patch test before full application
- Product performance may vary based on temperature and humidity

**End of TDS**