# **LAPOX® GRANITO JR-150 | JH-350**

Technical Data Sheet | Polymers Business



### **Ambient cure low viscous system**

### **Description**

Lapox Granito JR-150 | JH-350 is two component modified, epoxy based system suitable for treatment of Italian marbles and granites. It is a room temperature curing system, having low viscous and good penetrating properties into cracks for marbles and granites. The system shows excellent impregnation and gloss properties after curing. Faster productivity can be achieved, if curing is performed at higher temperature between 40°C and 60°C. Curing at higher temperature is recommended to achieve optimum performance.

### **Applications**

Filling and coating of Italian marbles and granites

### **Advantages**

Enhance self-colour of the granites and Italian marbles

Good colour stability

Good penetrating power into cracks

High gloss Low shrinkage

System can be pigmented

Thermally stable and suitable to perform in extreme conditions

Water and chemical resistant

## **Typical specifications**

| Test               | Unit  | Reference  | Values                    |                           |
|--------------------|-------|------------|---------------------------|---------------------------|
|                    |       |            | Resin                     | Hardener                  |
| Description        | -     | Visual     | Clear, transparent liquid | Clear, transparent liquid |
| Viscosity at 25°C1 | m Pas | ASTM D2196 | 450 - 650                 | 10 - 20                   |
| Colour             | APHA  | ASTM D1209 | Max 60                    | -                         |
| Colour             | GS    | ASTM D1544 | -                         | Max 1                     |
| Specific gravity   | -     | -          | 1.10 - 1.20               | 0.95 - 1.00               |

<sup>&</sup>lt;sup>1</sup>Viscosity by Brookfield viscometer

## Mix specifications

| Test                                   | Unit    | Reference  | Value     |
|--|---------|------------|-----------|
| Mixing ratio (resin : hardener)        | w/w     | -          | 100 : 25  |
| Mix viscosity at 25°C                  | m Pas   | ASTM D2196 | 200 - 300 |
| Pot life <sup>1</sup>                  | Minutes | ASTM D2471 | 35 - 45   |
| Peak exotherm temperature <sup>2</sup> | °C      | -          | Max 135   |
| Surface dry <sup>3</sup>               | Minutes | ASTM D5895 | 100 - 120 |
| Touch dry <sup>3</sup>                 | Minutes | ASTM D5895 | 170 - 190 |

 $<sup>^{1}</sup>$ Pot life of 100 g mix mass at 25  $\pm$  1 $^{\circ}$ C in plastic disposable cup by 'Gardco' gel timer

## After cure specifications

| Test                                  | Unit    | Reference    | Value     |
|---------------------------------------|---------|--------------|-----------|
| Hardness <sup>1</sup>                 | Shore D | ISO/ R868    | 70 - 75   |
| Water absorption (24 hours immersion) | %       | ASTM D670-63 | Max 0.4   |
| Tg, RT curing, 24 hours <sup>2</sup>  | °C      | DSC          | 50 - 55   |
| Tg, potential <sup>2</sup>            | °C      | DSC          | 75 - 80   |
| Optical clarity                       | -       | Visual       | Excellent |

<sup>&</sup>lt;sup>1</sup>Hardness checked for 10 mm casting, after 24 hours curing

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 $<sup>^2</sup>Total$  100 g mix mass in plastic disposable cup at 25°C  $^*Drying$  time of 200 micron film on glass plate at 42  $\pm$  0.5°C

<sup>&</sup>lt;sup>2</sup>Tg (Glass transition temperature) development behavior

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#### **Processing**

**Surface preparation:** Clean thoroughly the crack area on marbles. Ensure the surface is free from dirt, oil, grease and moisture. Wipe off the surface of the marble with clean cloth. Inadequately pretreated substrates may not show satisfactory results.

#### **Application**

**Crack filling:** Take resin and hardener as per mentioned ratio, mix thoroughly. Take it in dispensing bottle, dispense mix over the cracks. Pigmentation can be done by adding suitable pigment.

**Micro** | hair line crack treatment: Take resin and hardener in above mentioned ratio, mix thoroughly and apply the mix over complete surface of marble with the help of a metal spatula. Apply as many coats as required, depending upon the nature of cracks on the surface. Allow to cure in day light for 24 hours. The excess material can be grinded and removed from the surface of the substrate. Excessive humidity (above ~65%), low daylight and low temperature (less than 20°C) may retard the cure. The Lapox Granito JR-150 | JH-350 system will not work effectively in the monsoon

**Polishing of marbles and granites:** It can be done after 24 hours to 30 hours from the time of Lapox Granito JR-150 | JH-350 application on surface.

## Troubleshooting

| Problem                            | Cause  |
|------------------------------------|--|
| Uncured after 24 hours to 48 hours | Wrong mix ratio and   or low ambient temperature |
| Sticky   greasy   hazy surface     | High humidity                                    |

#### **Packaging**

Lapox Granito JR-150 | JH-350 is available in 1.25 kg bottles, 5 kg and 10 kg HDPE jerry cans and 250 kg MS | HDPE drums. Other packing may be considered on request.

### Storage and handling

Lapox Granito JR-150 | JH-350 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of one year, if stored in its original container between  $2^{\circ}\text{C}$  and  $40^{\circ}\text{C}$  away from humidity and excessive heat.

#### Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox Granito JR-150 | JH-350 for detailed safety instructions.

## Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

## **Contact**

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#### **Note**

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