



# DENVERCOAT EPÓXI ARQ

Epoxy-resin Based Coating, High Chemical Strength

**DENVER**  
IMPERMEABILIZANTES

**DENVERCOAT EPOXY ARQ** is a polyamine-epoxy resin based coating, bi-component and free of solvents.

## USES

Ideal for coating concrete or steel tanks, industrial and organic effluent treatment plants, reservoir floors, concrete gutters, metal piping, pipelines etc.

## ADVANTAGES

- ❑ Free of solvents, it can be used in enclosed areas without risk.
- ❑ Tixotropic.
- ❑ Excellent chemical resistance to acids, alkalis, oils, greases etc.
- ❑ High mechanical resistance and resistant to abrasion.
- ❑ Good adherence on concrete and metallic surfaces.
- ❑ Excellent tightness.
- ❑ It accepts a framework with a polyester industrial screen in critical points.

## TYPICAL PROPRIETIES

The following proprieties were achieved in laboratory tests. Test values of new lots may present small variations.

### Denvercoat Epoxy ARQ

| Test                                       | Specification                                    | Standard  |
|--|--|-----------|
| Specific mass (Comp. A)                    | 1.5 to 1.8 g/cm <sup>3</sup>                     | NBR 5829  |
| Tightness (positive and negative pressure) | No leakage                                       | NBR 10787 |
| Solid Content                              | 100%   |           |
| Pot life                                   | 1 a 3 hours                                      |           |
| Curing Time                                | 14 days  |           |
| Time for framework release                 | 3 to 7 days (depending of medium aggressiveness) |           |
| Drying between coatings                    | 6 to 12 hours                                    |           |

## APPLICATION METHOD

### Surface Preparation

#### Concrete Surface

Surfaces must be straight and leveled, nor burned, clean, free of moisture, oils, greases, demolding agents, free particles etc. Nests and concrete failures shall be detected and all the loose aggregate must be removed, being rearranged with **Denvergrout**, or sand ad cement grout, trace 1:3, crushed with a 50% water and **Denverfix Acrylic** solution. Further, concrete bubbles or small holes must be topped with **Denvertec 100**.

These holes can also be topped with stucco and a paste composed of cement with acrylic adhesive emulsion, **Denverfix Acrylic**.

The concrete surface must be cured and totally dried.

#### Steel Surface

Steel surface must be sandblasted for removing oxidation deposits, paint or oil and, after 2 hour maximum, **Denvercoat Epoxy ARQ** must be applied.

#### Aluminum and Galvanization

Apply a layer of **Primer Epoxy Zinc Cromate**, after cleaning the surface with **Denversolvente 300**.

#### Mixing Preparation

Add component B (hardener) to component A (resin) of **Denvercoat Epoxy ARQ** and, using a drill machine with an adapted plunger, homogenize the mixing for 3 minutes.

#### Application

Using a metallic planer or chisel, apply one or more layers on the surface and wait until each layer dries, so the desired product will be achieved.

## OBSERVATION

- ❑ In buried concrete foundations, subjected to earth moisture or groundwater action, in which there is no condition of a 100% dry substrate for applying and curing of **Denvercoat Epoxy ARQ**, apply **Denverprimer Epoxy** or **Denvertec 100** previously to make the surface waterproof.
- ❑ Apply on a perfectly dried surface. When applying on surfaces with some residual moisture, use **Denverprimer Epoxy**.
- ❑ It shall not be used in ambient temperature below 10°C.
- ❑ Before selecting **Denvercoat Epoxy ARQ** as an antirust treatment, the chemical residues shall be analyzed for pH, working temperature and composition (specifying concentrations). Consult DFENVER Technical Department.
- ❑ When period of time between layers is higher than 24 hours, perform thin sandpaper rubbing to achieve adherence between layers.
- ❑ **Denvercoat Epoxy ARQ** doesn't offer UV Ray resistance. We recommend its protection at exposed areas with **Denvercoat PU**, taking care to perform thin sandpaper rubbing when period of time after the last layer of **Denvercoat Epoxy ARQ** is higher than 24 hours.



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## CONSUMPTION

| Area     | 1st Layer              | 2nd Layer              |
|----------|------------------------|------------------------|
| Concrete | 0.50 kg/m <sup>2</sup> | 0.50 kg/m <sup>2</sup> |
| Steel    | 0.30 kg/m <sup>2</sup> | 0.30 kg/m <sup>2</sup> |

## PACKAGING

Packing with 5,8 kg (A+B)

Packing with 24 kg (A+B).

## STORAGE

Store in a covered, dry, ventilated location and in the intact packages in a temperature equal or below 25°C.

Shelf Life: 12 months

## CLEANING

Equipment and tools should be cleaned with **Denversolvente 300**. After hardening, the material can only be removed mechanically.

## HANDLING AND SAFETY

- Denvercoat Epoxy ARQ** should not be neither ingested or be in contact with the skin and eyes. In case of accidental ingestion don't induce vomit and seek prompt medical care.
- When the product comes into contact with the skin, remove the product with thinner or **Denversolvente 300**, rinse with clean running water and apply moisture cream. If there is contact with the eyes, rinse them with clean running water and seek medical care.
- Don't smoke.

- It is recommended to observe the safety regulations established by the relevant bodies and to use suitable PPEs, including safety goggles, breath devices and tightness gloves. It is recommended to use specific creams as additional skin protection.
- Don't reuse the packages.
- For more information about handling and safety, request the product SISCP<sup>1</sup>.**

## PERFORMANCE

DENVER IMPERMEABILIZANTES guarantees the quality of the product against manufacturing defects; however, it does not assume responsibility for the performance of the work, since it does not have direct control over the application conditions. Any indemnification will be limited to the cost of the product.

DENVER IMPERMEABILIZANTES informs that it may alter the product whenever necessary, without prior notice.

DENVER IMPERMEABILIZANTES products should be applied by trained professionals and in compliance with the instructions listed in the application manuals provided by the company.

If you have questions, call:

Customer Service Center: (+5511) 4741-6000 (São Paulo)

0800-770 1604 (Other locations within Brazil)

<sup>1</sup> Safety information sheet for chemical products.

### DENVER IMPERMEABILIZANTES

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