

# RESILIT D



Review – 00-07/2021

## DESCRIPTION

**RESILIT D** is a three-component, anticorrosive mortar based on Ester Vinyl Resin, Derakane 411-350 Signea, made from an epoxy resin of Bisphenol A, with high chemical, thermal and mechanical resistance for use in the laying and grouting of anti-acid ceramic plates and bricks as anticorrosive linings in storage tanks, reactors, containment dikes, pump bases, industrial equipment and floors.

It has Zero VOC's and complies with occupational health, safety, and environmental preservation requirements.

It is prepared with an innovative system that provides a healthy application environment, with less odor, with reduced styrene emissions in compliance with the most demanding levels of control for Occupational Health, environmental preservation and safety of the applicators.

## RECOMMENDATIONS FOR USE

Recommended for use as a laying or grouting of anticorrosive ceramics, industrial floors, food industry, paper and cellulose, fertilizers, pharmaceutical, beverages, dairy products, meat packing plants, pharmaceutical industry, industrial kitchens, among others.

**LAYING:** On the dry and cured substrate, apply a layer of **PRIMER ESPECÍFICO** and spray **QUARTZO**. Wait at least 4 hours to lay the slabs. Do not wet the area to be covered until after the post-work cleaning is done.

Control the alignment of the ceramic tiles with the help of lines previously laid out in the length and width of the room. Do not use plastic spacers to determine the joint spacing.

Apply a spatulated layer of mortar on the substrate with the smooth side of the straight edge trowel, in order to avoid settlement flaws. After applying this layer, make the beads with the straight edge of the straightener.

**LAYING:** Lay the ceramic tiles with **RESILIT D**, previously filling the conical claws of the ceramic tiles as you apply them over the already stretched mortar, preventing them from becoming "hollow", damaging the adherence and reducing the mechanical resistance.

The total thickness of the laying mortar (spread + applied on the back) must be around 6mm.

It is recommended to use a rubber hammer to assist in the laying of the ceramic tiles.

**GROUTING:** The joints must be free of all types of dirt such as; mortar residue, dust, earth or other residues.

After the anti-corrosive ceramic tiles have been laid with cementitious adhesive mortar or **RESILIT D**, wait at least 12 hours before beginning to apply the grouting.

Apply the grout with plastic or metal spatulas, removing the excess mortar at the time of application and at most one hour after application, clean the ceramic tile surface with a cloth or towel dampened with Resilimp E.

## PRODUCT PROPERTIES

Description	Value
Shore D Hardness - 7 day cure	Minimum 80
Compression Strength - 7 days cure, MPa	75
Tensile Strength - 7 day cure, MPa	30 to 40
Maximum operating temperature, °C	90
Curing time at 25° C, low aggressive environment,	3 days
Curing time at 25° C, Medium environment,	5 days
Curing time at 25° C, HIGH aggressiveness environment,	7 days
Solid content, (%) minimum	98.00
Density, gr/cm <sup>3</sup>	1.80
Catalyzed working time, minutes	20 to 30
Maximum cleaning time, minutes	30
Color, visual	Various
Application method	Spatula
Cleaning solvent	Resilimp

## PACKAGE INFORMATION

### MIXING RATIO AND PACKAGE

Description	Mixing Ratio	Package Information	
		Gallon 3.60 lts	Gallon 3.60 lts
<b>Resilit D</b> – Component A	20.00 parts	Gallon 3.94 kg	Pail 19.70 kg
<b>Catalisador M50</b> – Component B	1.30 to 1.80 % on Comp. A	Jar 60.00 grams	Jar 370.00 grams
<b>Resilit Pó</b> – Component C	80.00 parts	Bag 16.00 Kg	05 bags 16.00 kg

## CONSUMPTION ESTIMATION

Ceramic size	Consumption Information		
	Joint width	Laying	Grouting
Ceramics 240 x 116 x 9 mm	7 mm	13.00 kg/m <sup>2</sup>	1.10 kg/m <sup>2</sup>
Ceramics 240 x 116 x 14 mm	7 mm		1.90 kg/m <sup>2</sup>
Ceramics 240 x 116 x 17 mm	7 mm		2.10 kg/m <sup>2</sup>
Ceramics 240 x 240 x 10 mm	5 mm		0.70 kg/m <sup>2</sup>

Good construction practice recommends adding a percentage of 10% to compensate any possible losses.

The loss percentage can vary for several reasons, such as: the applicator's experience, thickness applied, surface leveling, substrate roughness, type of tool used in the application, environmental conditions, among others.

## ADDITIONAL INFORMATION

In an adequate container mix **Resilit D - Component A** with **Catalisador M50 - Component B** and mix it with a colloidal drill or mechanical mixer, then add **Resilit Pó - Component C** over the mixture of Components A+B with agitation until a homogeneous and plastic mass is obtained.

The shelf life after mixing of Components A+B+C varies according to the ambient temperature of the place of use and application, the speed and/or friction of the mixer.

Temperature above 25° C, reduces the shelf life of the A+B+C Components mixture.

Temperature below 25° C prolongs the shelf life of of the A+B+C Components mixture,

**Resilit D** must be stored in a covered, ventilated and dry place, on pallets and at at temperature lower than 30°C, considering it is a flammable product. Do not allow smoking, exposing open flames, weldings or services that can cause sparks near the workplace and storage.

The shelf life is 06 months for Component A, 01 year for Component B and 5 years for Components C after the manufacturing date, provided they are stored as recommended and in their original packaging.

For your safety, handle the ingredients carefully and use PPE. Observe the precautions and recommendations indicated in the MSDS. Direct contact can cause skin and eye irritation. If this occurs, wash the affected area immediately with plenty of water and seek medical advice immediately.

For further information, we recommend contacting Resinar Materiais Compostos Ltda's technical and/or commercial department, which will provide more information on use, application, and technical literature.

## COMPLEMENTARY INFORMATION AND TECHNICAL ASSISTANCE

### Resinar Materiais Compostos Ltda

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