

MARISEAL® 700

Rising damp
sealant for basements

TECHNICAL DATA SHEET
Date: 08.11.2023 – Version 23

Product Description

MARISEAL® 700 is a semi-rigid, deep penetrating, one-component polyurethane-based sealant for rising damp. It provides strong adhesion to absorbent substrates and is highly resistant to mechanical stress, abrasion and common chemicals and detergents. MARISEAL® 700 polymerises due to the moisture of the subsoil and the air.

1

Product Information

- One-component polyurethane-based sealant that polymerizes due to the moisture of the soil and the air.

Packaging

1/5/10/17 kg metal pails

Color

- Transparent, sub-yellow

Shelf Life

- 12 months from the date of production

Storage Conditions

- pails should be stored in dry and cool rooms. Protect the material against moisture and direct sunlight. Storage temperature: 5°-35°C. Products should remain in their original, unopened containers, bearing the manufacturer's name, product designation, batch number and application precaution labels.

Advantages

- Easy application
- Deep penetration
- Provides excellent sealing and waterproofing properties, because it transforms the surface on which it is applied (plaster, concrete or mortar) into a semi-rigid, joint-free waterproofing membrane.
- Provides enough elasticity to follow light movements of the surface.
- Resistant to standing water.
- Can be painted over with common vinyl and acrylic paints
- Low cost

■ Uses

- Mainly used as a sealant for rising damp in:
- Interior basement walls
 - Interior ground-floor walls
 - Can also be used as a stabiliser for loose surfaces on floors and walls.

■ Consumption

- 150-200 gr/m² per layer. It is applied in three layers.

This consumption is based on application by roller onto a smooth surface under normal laboratory conditions. Factors such as substrate absorbency, temperature, relative humidity, application method and desired finish may change the proposed consumption.

■ Certifications



Chemical resistant

Sulphuric acid 10%	+	Sea water	+
Hydrochloric acid 10%	+	Mineral oils	+
Nitric acid 5%	+	Petrol (unleaded)	+
Acetic acid 10%	+	Ethanol 10% (alcohol)	±
Ammonia 5%	+	Aircraft fuel (JET A1)	+
Sodium hydroxide 10%	+	Dichloromethane	-
Calcium hydroxide 10%	+	N-methylpyrrolidone (brake fluid)	-
{+ Stable, - Not stable, ± Stable for a short period.}			



Technical Data*

PROPERTY	RESULTS	TEST METHOD
Composition	Pre-polymerised polyurethane resin with solvents	
Resistance to water pressure	No leak at a pressure of 7 atmospheres	DIN 1048
Resistance to bending	400kg/cm ²	Internal laboratory test
Adhesion to concrete	2.5 ± 0.2 N/mm ² (concrete failure)	ASTM D 903
Hardness (Shore A scale)	65 ± 5	ASTM D 2240
High temperature resistance	110 °C	Internal laboratory test
Low temperature resistance	-40 °C	Internal laboratory test
Application temperature	5 °C to 35 °C	Conditions: 20 °C, RH 50%
Light pedestrian traffic time	1-3 hours	Conditions: 20 °C, RH 50%
Curing time	24 hours	Conditions: 20 °C, RH 50%

■ Application

Surface preparation

Careful surface preparation is important for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination which may harmfully affect the adhesion of the membrane. Remove all loose materials. New concrete structures need to dry for at least 28 days. Maximum moisture content should not exceed 5%. Old coatings, dirt, fat, plant organisms and dust need to be removed by a grinding machine. Any surface irregularities need to be smoothened. Any loose pieces or dust must be removed.

WARNING: Do not wash surface with water!

Application

For best results, the temperature during application and curing should be between 5oC and 35oC. Low temperature retards curing, while high temperature speeds up curing. High humidity may negatively affect the final finish.

Apply MARISEAL® 700 by roller or brush.

After 2-3 hours and while the surface is still a little sticky, apply the second layer of MARISEAL® 700. After 2-3 hours and while the surface is still a little sticky, apply the third layer of MARISEAL® 700.

ATTENTION: All layers of the MARISEAL® 700 sealant must be applied on the same day, to achieve the best possible bonding results.

■ Safety measures

See information supplied by the manufacturer. Flammable. Please study the Safety Data Sheet
PROFESSIONAL USE ONLY

Our technical advice for use, whether verbal or written, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We may guarantee only that our products are compliant with their technical specification; correct application of our products therefore falls entirely within your scope of liability and Users are responsible, in any case, for complying with local legislation and for obtaining any required approvals or authorizations, when necessary, either for their purchase and/or for their use. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our Technical department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

* All values represent typical values and are not part of the product specification. The applied primer might yellow and/or fade upon UV exposure.