

MasterSeal 690

10-Year Durability Acrylic Waterproofing Product.

DESCRIPTION

MasterSeal[®] 690 is an excellent-performance 10A-type waterproof product, formulated with styrene-acrylic resins that provide it with elasticity, reflectivity, waterproofing and 10-year duration properties. Resistant to environmental chemical agents such as carbon dioxide and others.

PACKAGING

19 L (5 gal) buckets

YIELD

Apply Master Builders Solutions line reinforcing fabric, in accordance to the following yields:

1.0 L/m² at two layers using MasterSeal[®] 964 SM

1.5 L/m² at two layers using MasterSeal[®] 964 RM; yield may vary depending on rugosity and type of surface.

SHELF LIFE

2 years if properly stored.

STORAGE

Store in unopened original containers in a clean, dry area at a temperature between 10-40 °C (50-104 °F)

FEATURES AND BENEFITS

MasterSeal[®] 690 provides an excellent thermal protection due to its high thermal reflectivity (applied in white color) this performance shall depend on ambient conditions and thermal envelope of the structure.

- When applied in white, it reflects more than 80% of sun light.
- Provides great resistance to weatherproofing.
- Does not form a vapor barrier, allowing for substrate or structure to release moisture and to dry.
- Does not contain organic solvents, nor toxic and harmful contaminants for people or the environment.
- Excellent covering power.

- Fast application and excellent finishing.

RECOMMENDED USES

- MasterSeal[®] 690 is used as a waterproof and decorative coating on concrete roofing.
- To maintain and renew well-adhered and already in place waterproofing systems.
- Due to its ceramic loads, it provides good thermal insulation.

MODE OF APPLICATION

Surface Preparation

1. Surface shall be free from dust, oils, grease, rust, moisture, fungus and any other contaminants affecting bond.
2. Apply MasterProtect[®] P 105 on all the surface to be waterproofed using a vegetable-fiber brush.
3. Using MasterProtect[®] FL 600, repair critical point such as: chamfers, domes, pipelines crossing the slab, cracks greater than slab joints and construction joints.
4. If necessary, use MasterSeal[®] 964RM sections and two layers of MasterSeal[®] 690 product on the critical points mentioned above, leaving the reinforcing fabric in between.

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TECHNICAL DATA

Composition

MasterSeal® 690 is a waterproof product with styrene-acrylic resins.

Typical Properties

Property	Units	Value	Method
Durability	Years	10	
Solids	%	60 minutes	ASTM D 1644
Density	g/cm ³	142	ASTM D 1476
Viscosity	cPs	40,000	ASTM D 2196
Final Drying (21 °C 50% Relative Humidity)	H	12 to 24	ASTM D 1640
Tensile Strength (Max)	lb./in ²	106	ASTM D 2370
Elongation (Max)	%	337	ASTM D 2370
Permeability	perms	1.6	
pH		8.9	ASTM E 70
Solar Reflectance	%	85.6	NMX-U-125-2016
Thermal Emissivity	NA	0.89	NMX-U-125-2016
IRS	NA	108	NMX-U-125-2016

Test results are averages obtained under lab conditions. Reasonable variations may be expected. This product is in compliance with NMX-U-125-SCFI-2016 Standard. Type 10A, L1 Product.

APPLICATION TOOLS

MasterSeal® 690 may be applied with a natural fiber brush, roller or regular brush.

APPLICATION METHODS

1. Apply first layer of MasterSeal® 690 on all the surface.
2. Place MasterSeal® 964SM or MasterSeal® 964RM, bonding it to the first layer of fresh waterproof product.
3. After making sure the first layer is dry, immediately apply the second layer of waterproofing, this shall be applied cross-sectionally to the first layer.

Note: The single reinforcing mesh is recommended for slabs no greater than 90 m², and for slabs greater than 90 m², double reinforcement mesh is recommended.

FOR BEST PERFORMANCE

- MasterSeal® 690 is not to be diluted.
- Two layers are directly applied on the surface to be waterproofed.
- Evenly stir product before using it. It is necessary to apply the same stirring process for each container to be used.
- Do not apply at temperatures under 8 °C, nor over 40 °C.
- Should not be applied if rain is expected or over a wet surface.
- If applied on top of an old waterproof system, the latter shall have good adherence, or otherwise it shall be

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- completely removed.
- Storage temperature shall be 10-40 °C (50-104 °F)
- This product appearance may vary according to the type of construction to be protected: concrete slab, fibrocement, mortar, metal sheet, etc.
- Before using this product, the installation of recommended complements shall be verified for correct performance of the waterproof system as well as the correct treatment of the critical areas. Critical points shall be treated with this waterproof product, and a double mesh section, at least 15-cm wide, perfectly embedded in two layers of the same waterproof product –drying time will be approximately 4-6 hours depending on ambient conditions.
- Shel life of this product will be one year from manufacturing date.

SAFETY

Read, understand and follow all Material Safety Data Sheet (MSDS) and product label information prior to use. The MSDS can be obtained by requesting it from your Master Builders Solutions Sales Representative. In case of spills, leakages, fire, exposure or accidents, CALL SET-IQ DAY OR NIGHT OR DAY **800-00-214-00** or **55-59-15-88** (Mexico City). KEEP OUT OF REACH OF CHILDREN! FOR PROFESSIONAL USE, NOT FOR SALE FOR THE GENERAL PUBLIC.

LIMITED WARRANTY NOTICE

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