



MAXSHEEN[®] **ELASTIC**



ENVIRONMENTAL PRODUCT DECLARATION

ELASTIC ACRYLIC COATING FOR ANTI-CARBONATION PROTECTION, WATERPROOFING AND DECORATION OF CONCRETE AND MASONRY



DESCRIPTION

MAXSHEEN[®] ELASTIC is a water-based pure acrylic product which provides an elastic, durable and high-performance coating suitable for waterproofing, anti-carbonation protection and decoration of concrete structures and masonry in

all kind of civil engineering works and buildings. It is available in two versions: smooth and textured finish.

APPLICATION FIELDS

- Protection against carbonation on concrete structures, bridges, industrial areas, residential buildings, etc.
- Waterproofing and protection against freezing cycles, marine environment, pollution, etc in seaside façades, architectural concrete, etc.
- Over **MAXSEAL®**, **MAXSEAL® FLEX**, **CONCRESEAL® PLASTERING**, **MAXREST®** in order to achieve the required texture and colour finish.
- Waterproofing and restoration of active cracks and joints on façades, architectural curtain-wall panels, etc.

ADVANTAGES

- Excellent protection against carbonation of concrete. Very high resistance to CO₂ penetration, preventing corrosion of rebars caused by carbonation process.
- Permeable to water vapour, it does not form a water vapour barrier.
- It is elastic and provides very good crack-bridging capability. Withstands substrate movements in a wide temperature range.
- Very high adhesion over common building materials: concrete, renders, bricks, stone, wood, gypsum plasters, etc.
- Good resistance to stains and dirt. Easy to clean.
- Long-lasting. Excellent UV-ray and weathering resistance with colour stability.
- Environmentally friendly: Non-toxic and non-flammable.
- Available in 16 different colours and two textures finish.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. It must be clean, free of paints, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, organic growth or any other contaminants that may affect to adhesion.

For cleaning and substrate preparation, preferably in case of the smooth and/or poorly absorbent substrates, use preferably sand blasting or high-pressure water cleaning methods, not being desirable aggressive mechanical means.

All surface defect, voids, honeycombs and static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with **MAXREST®** (Technical Bulletin No. 2).

Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with **MAXREST® PASSIVE** (Technical Bulletin No. 12).

On porous or absorptive substrates, gypsum and chalky or dusty surfaces, should be primed with **MAXSHEEN® PRIMER** (Technical Bulletin No. 150) to seal pores and obtain a more cohesive and homogeneous surface.

Application

MAXSHEEN® ELASTIC is supplied ready to use. Previous to application, stir the content of the packaging in order to get a homogeneous paste and color uniformity. **MAXSHEEN® ELASTIC** can be applied by brush, roller or mechanically by air-less gun. In that last case, dilute it with the minimum amount of water which allows the product application.

Over concrete, masonry, render, asbestos cement and stone. Apply two coats. The first coat should be diluted in the ratio 5:1 of **MAXSHEEN® ELASTIC** and water. This coat is applied as a primer and once it is tack-free, 2-3 hours depending on the ambient conditions, apply the second coat of pure **MAXSHEEN® ELASTIC**.

Active cracks / fissures and joints subject to movements. Once it is opened up and clean, fill with a suitable sealant such as **MAXFLEX® 100 LM** (Technical Bulletin No. 65) or **MAXJOINT ELASTIC** (Technical Bulletin No. 156) and let to cure for 3 days. Then apply a first thick coat of **MAXSHEEN® ELASTIC** with 0,3 kg/m² and spread a strip of **DRIZORO® VEIL G-45** (6-8 cm wide) ensuring to be totally embedded. Once it is dry, apply a second coat of pure **MAXSHEEN® ELASTIC** with similar consumption.

Other substrates and uses. Consult our Technical Department.

Cleaning

All tools and equipments must be cleaned immediately with water after use. Once product cures, this can only be removed by mechanical means.

Application conditions

Do not apply when rain, contact with water, condensation, dampness and dew is expected within the first 24 h. Do not apply with substrate or ambient temperature is at or below 5°C, or when are expected

to fall below 5°C within 24 h. Do not apply to frozen or frost-covered surfaces.

For applications at hot temperatures, low relative humidity and/or windy conditions, i.e. summertime, wet surface with plenty of water. If the temperature is high, **MAXSHEEN® ELASTIC** should be applied in the shade.

Cleaning

All tools and work equipment must be cleaned with water before **MAXSHEEN® ELASTIC** polymerizes. Once hardened, the material can only be removed by mechanical means.

CONSUMPTION

The estimated total consumption in two coats of **MAXSHEEN® ELASTIC** smooth is 0,4 to 0,6 kg/m² (0,2 to 0,3 kg/m² per coat) and for **MAXSHEEN® ELASTIC** textured is 0,6 to 0,8 kg/m² (0,3 to 0,4 kg/m² per coat).

These figures are for guidance and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Do not apply on substrates subject to raising damp, negative water pressure or water immersion.
- Allow new concrete and mortars a curing time of 28 days before application.
- Observe the recommended consumption per coat.
- Do not add solvents, thinners, additives, aggregates or other compounds.
- Do not apply on enameled or vitrified substrates and surfaces with water repellent agents.
- For other uses not specified in this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXSHEEN® ELASTIC is supplied in 25 kg drum. It is available in 16 colours (dark grey, light grey, dark green, light green, dark blue, light blue, salmon, white, off white, buff, cream, bone, brown, adobe, red brick and ivory), and two textures; smooth and textured.



STORAGE

Twenty-four months in its unopened packaging. Store in a cool, dry and covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5°C.

SAFETY AND HEALTH

MAXSHEEN® ELASTIC is non-toxic, but skin and eye contact must be avoided. Safety goggles and protective gloves should be used during the application. In case of skin contact, wash affected areas with soap and water. In case of eye contact rinse thoroughly with clean water but do not rub. If irritation continues, seek medical attention.

Safety Data Sheet for **MAXSHEEN® ELASTIC** is available by request.

The final user must do disposal of the product and its empty packaging according to official regulations.

TECHNICAL DATA

Product characteristics	
CE Marking, EN 1504-2	
Description. Coating for protection of concrete. Coating (C).	
Principles / Methods. Protection against ingress with coating (Principle 1-PI / 1.3), Moisture control with coating (Principle 2 –MC / 2.2) and Increasing resistivity by limiting moisture content with coating (Principle 8-IR / 8.2)	
General appearance and colour	One-component homogeneous paste
Application and curing conditions	
Minimum application temperature for substrate and ambient, (°C)	> 5
Waiting time between coats at 20°C & 50 % R.H., (h)	2-3
Cured product characteristics	
Elongation at break, EN 527/3 (%)	290
Tensile strength, EN 527/3 (MPa)	0,80
Permeability to water vapour, EN ISO 7783-1/-2. Classification	Class I: Permeable to water vapour
Transmission rate, V (g/m ² ·day)	120,6
Thickness of equivalent air layer, S _D (m)	0,17
Coefficient, μ	1.088
Permeability to water and capillary absorption, EN 1062-3. w (kg/m ² ·h ^{0,5})	< 0,1
Permeability to CO ₂ , H. Klöpfer method.	695 / 0,022·10 ⁻⁶
Thickness of equivalent air layer, S _D (m) / d _{CO2} (m/s)	(recommendation S _D > 50 m)
Pull-off test, EN 1542 (MPa)	≥ 1,0
Adhesion on concrete, ASTM D-4541 (MPa)	2,4
Consumption*	
Consumption per coat/total application, (kg/m ²)	
Standard or smooth version	0,2-0,3 / 0,4-0,6
Textured version	0,3-0,4 / 0,6-0,8

* Consumption may vary depending on the texture, porosity and condition of the substrate, as well as the application method. Carry out an on-site test to determine the exact amount required.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®, S.A.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.