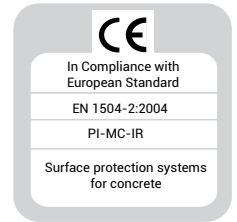


**ABRASION AND WEAR RESISTANT PROTECTIVE COATINGS****BASED ON WAP-ELASTIC TECHNOLOGY™**

- Resistant to abrasion and wear conditions yet flexible
- Forms fully bonded seamless waterproofing membrane
- One component water based, VOC compliant
- High sheen with excellent weather, U.V. Light and water resistance
- Water vapour permeable
- High solar reflectance
- Excellent resistance to carbonation and chemicals
- Low and high temperature stability and accommodate movements

**PRODUCT DESCRIPTION**

SUPERSHIELD INFRON is a one component waterborne liquid applied abrasion and wear resistant protective coating used in wide range of applications such as

- a top coat for protection over protective membranes in buildings and infrastructures subjected to wear and weathering conditions,
- hygiene coatings in food and pharmaceutical industries and
- also as a laminate coating to protect and beautify wood and steel

SUPERSHIELD INFRON is based on innovative WAP (Water-based Aliphatic Polyurethane) - ELASTIC technology that is developed based on the 100% aliphatic polyurethane dispersion with excellent sheen and U.V resistance. When the SUPERSHIELD INFRON is applied, it forms a seamless, protective coating that protects efficiently on a long term basis.

SUPERSHIELD WAP ELASTIC TECHNOLOGY

The WAP-ELASTIC TECHNOLOGY from Supershield enables, long chain polyurethane macromolecules to be incorporated in a water medium, forming stable dispersion. SUPERSHIELD WAP ELASTIC TECHNOLOGY combines the high performance of the polyurethane dispersion with the application ease of an one component water based coatings, in an ecological, low VOC, environmentally friendly product.

RECOMMENDED FOR

- Used as a top coat over the waterproofing membranes subjected to pedestrian traffic
- Floor coating for covered and open car park decks
- Hygiene coating for floors and walls
- Protective coating for bridges, flyovers, tunnel, rail roads.
- Laminate coating for steel and wood
- Protection of Polyurethane Foam Insulation
- Waterproofing of most surfaces exposed to wear and weathering conditions



TECHNICAL DATA

| | |
|-------------------------------------|------------------------------------|
| Product Code | SWE103 |
| Colour and Appearance | White - colors available |
| Density | 1.12 Kg/litre |
| VOC Content | < 75 gm/Ltr ² |
| Service Temperature | -40°C to +90°C |
| Elongation at break | ASTM D 412 >150 % |
| Tensile Strength | ASTM D 412 13 N/mm ² |
| Abrasion Resistance (Taber Abraser) | ASTM D 4060 0.11 gms / 1000 cycles |
| Hardness (Shore D Scale) | ASTM D 2240 (15") >30 |
| Light Pedestrian Traffic Time | Conditions: 20°C, 50% RH 24 hours |
| Final Curing time | Conditions: 20°C, 50% RH 7 days |

Performance characteristics for CE certification according to EN 1504-2:2004, 2+

| TEST TYPE | STANDARD | PERFORMANCE |
|--|-----------------|--|
| Permeability | EN 1062-6 | > SD 50m |
| Permeability to water vapour | EN ISO 7783-1,2 | Class I SD< 5m |
| Capillary Absorption and Permeability to water | EN 1767 | W < 0.1 |
| Strength of Adhesion to indirect traction | EN 1542 | ≥ 0.8 N/mm ² |
| Thermogravimetry | EN ISO 11358 | ±5% of reference with respect to loss of mass @ 600°C |
| Infrared spectrum | EN 1767 | Position and relative intensities of the main absorption band matches with reference |

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



APPLICATION GUIDELINES

SURFACE PREPARATION

Careful surface preparation is essential 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. Maximum moisture content should not exceed 8%. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by appropriate methods. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

CONSUMPTION

0.2 – 0.4 kg/m² applied in one or two layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

TOP COAT APPLICATION

Stir well before using. Apply SUPERSHIELD INFRON over the prepared substrate by brush, roller or airless spray in one or two layers, depending on the future wear conditions expected. Allow 3-6 hours (not more than 24 hours) to cure between two layers.

Note: When used for vertical applications on infrastructures, as hygiene coatings or as laminate coatings on concrete and wood, INFRON can be used as a self priming coating by diluting INFRON with 20% water for the first coat.

CURING

The INFRON coating should be air cured for minimum of 4 to 6 days and protected from water/rain for a minimum of 18 hours.

LIMITATIONS

- If there are areas with ponding water, on the surface where the SUPERSHIELD INFRON system is

applied, they should be cleaned on regular basis to avoid biological and microbial attack.

- Do not apply the SUPERSHIELD INFRON in negative (degC) temperatures or when rain or frost is imminent in the next 48 hours. For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity (fog or dew conditions) retard cure and affect the curing times.
- The SUPERSHIELD INFRON may be slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact Supershield for more information.

HEALTH AND SAFETY

SUPERSHIELD INFRON contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during handling of this product. If product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

STORAGE

SUPERSHIELD INFRON should be stored in dry and cool rooms in their original, unopened containers for up to 18 months. Protect the material against frost and direct sunlight. Storage temperature: 5°C-30°C.

PACKAGING

20 Kg Pails.