

ABAFLEX-FCW**HIGHLY FLEXIBLE CEMENTITIOUS WATERPROOFING MEMBRANE FOR HORIZONTAL & VERTICAL SURFACES****DESCRIPTION**

A two part acrylic polymer modified highly flexible cementitious waterproof membrane supplied in pre-packaged form for the protection of concrete and mortar. ABAFLEX-FCW provides excellent adhesion, flexibility, crack bridging ability, and durability.

FIELD OF APPLICATION

Coatings made of ABAFLEX-FCW are wear-proof, elastic and waterproof. Such coatings can be used for areas subject to mechanical stresses and for areas which might be subject to cracking, e.g. waterproofing layers on terraces and balconies, as protection for concrete surfaces which can be walked on, as waterproofing for water tanks, swimming pools, underground concrete structures, pits, basins, wet and damp-rooms underneath tiles and ceramic coverings.

ADVANTAGES

- Resists strong hydrostatic pressure (tested against strong water pressure head both positive and negative)
- Solvent free and non-toxic - Environmentally friendly
- Protection against carbonation and chlorides
- Excellent adhesion. Full bonded
- Bridges cracks on positive water pressure side applications
- Minimum surface preparation needed. No priming is necessary in most cases.
- Stands up to pedestrian and light traffic
- Resists abrasion, mechanical wear & deicing salts
- Applied to moist/damp substrates. (Also it can be applied to 24 hour old concrete.)
- Approved for use in contact with potable water
- Breathable (not a vapor barrier)
- Does not support the growth of mold & mildew
- UV resistant

SURFACE PREPARATION

The substrate should be clean and sound, free of dust, loose particles, grease, oil and primers from previous membrane systems or bitumen. Bitumen or primers should be removed by shot blasting or mechanical means. Spalled concrete should be repaired by cutting out to sound concrete and patching with E.M.SUPER REPAIR. Cracks, holes and honeycombs must be repaired prior to application.



موسسه استاندارد و تحقیقات صنعتی ایران
تائیدیه صلاحیت آزمایشگاه همکار



مرکز ملی تایید صلاحیت ایران
ISO / IEC 17025



مجوز صادرات
به اتحادیه اروپا



استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۱۲۴، واحد ۱ | تلفکس: ۸۷۷۵۴

www.abadgarangroup.com

info@abadgarangroup.com



واحد تولیدی نمونه ملی

MIXING

ABAFLEX-FCW is supplied in premeasured units. Slowly add the powder to the liquid and mix to a lump free smooth consistency. Do not add water or rework a stiffened mix by adding water. Mix sufficient material to use within 30 minutes.

APPLICATION

Saturate the concrete's surface with clean water. Apply the first coat while the surface is still damp but no free standing water. Apply using a short stiff bristle brush, rubber squeegee or roller at a rate of 1-2 mm. for walls and floors, depending on the expected water pressure. The required thickness is achieved by applying 2 layers, taking care that each layer is not thicker than 1mm. Leave the first coat to dry for 2-4 hours before applying the second coat. The second coat can be rubbed down with a soft dry sponge. Spray or trowel application is acceptable providing the mixing ratio is adjusted to achieve the right consistency. Leave the second coat of ABAFLEX-FCW to cure overnight before proceeding to conduct water ponding test.

PHYSICAL & TECHNICAL PROPERTIES

| | |
|--|---|
| Appearance | Gray |
| Mixing Ratio | 2:3 (by weight) |
| Density (A+B) | Approx. 1.65 g/cm ³ |
| Coverage | Approx. 1.7 kg/m ² /mm |
| Service Temperature | 0 °C to +50 °C |
| Pot Life | Coverage |
| Tensile Adhesion Strength(Dry) | Approx. 30 minutes at ۳۰ °C |
| Tensile Adhesion Strength(Water Immersion) | >1 MPa (According to EN14891-2013) |
| Tensile Elongation | >0.8 MPa (According to EN14891-2013) |
| Crack Over Bridging | 10-15% (According to ASTM D412) |
| Adhesion to Concrete | > 0.8 mm(According to EN14891-2013) |
| Recoat Time | > 2 MPa (Concrete failure) According to ASTM D 4541 |
| Resistance to Water Penetration | Approx. 2 to 4 hours depending on the atmospheric conditions |
| Resistance to Water Penetration(Negative) | No water penetration up to 2.5 bar (According to BS EN 12390-8) |
| Exposure to | No water penetration up to 1 bar(According to EN14891-2013) |
| | - rain after approx. 3 hours |
| | - pedestrian traffic after approx. 1 day |
| | - pressure water after approx. 7 days |
| | - setting of tiles after approx. 1 day |



موسسه استاندارد و تحقیقات صنعتی ایران
تأییدیه صلاحیت آزمایشگاه همکار



مرکز ملی تأیید صلاحیت ایران
ISO / IEC 17025



مجوز صادرات
به اتحادیه اروپا



استاندارد ملی ایران



واحد تولیدی نمونه ملی

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۱۲۴، واحد ۱ تلفکس: ۸۷۷۵۴

www.abadgarangroup.com

info@abadgarangroup.com

CURING

ABAFLEX-FCW should be protected from high wind & intense sunshine. Keep moist for 3 - 4 days after application.

PACKAGING

40 kg set.

Part A: liquid/16 kg plastic pails; Part B: powder/ 24 kg bags

STORAGE & SHELF LIFE

The shelf life is 12 months if unopened, stored free from frost, moisture and direct sunlight.

HEALTH & SAFETY

ABAFLEX- FCW is non-toxic but is alkaline in its nature. When applying gloves & goggles should be worn. Wash off splashes to skin with water. If in eyes wash out with plenty of clean water and seek medical attention.

ABAFLEX-FCW is non-flammable. MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.



موسسه استاندارد و تحقیقات صنعتی ایران
تائیدیه صلاحیت آزمایشگاه همکار



مرکز ملی تایید صلاحیت ایران
ISO / IEC 17025



مجوز صادرات
به اتحادیه اروپا



استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۲۴، واحد ۱ | تلفکس: ۸۷۷۵۴

www.abadgarangroup.com

info@abadgarangroup.com



واحد تولیدی نمونه ملی