

690 UNICURE SOLID PRIME

690 UniCure Solid Prime is a two component solvent free epoxy rustpenetrating primer. It is a solvent free, surface tolerant, easy to apply, primer for hydro jetted, blasted or mechanical cleaned steel surfaces of St2 level or higher. It is very suitable for application in confined spaces such as ballast tanks and holds. A grain certificate is available for this product. Its excellent long term flexibility allows application in situations where reversed impact is required at various temperatures. Solid Prime should always be covered with a second coat of Solid Prime or Solid Seal to reach optimum corrosion protection.

FEATURES

- 100% solids;
- no solvent retention;
- no volatile organic chemicals (VOC's);
- Long term flexibility;
- surface tolerant;
- excellent wetting and penetration on corroded substrate;
- low odour system;
- non flammable;
- excellent water resistance;
- compatible with most shop primers and other epoxy systems;
- application without pre heating from 15°C or higher;
- heavy duty properties;
- Immersion qualified;
- ocean proofed;
- splash zone resistant;
- super high solid;
- easy application.

WORKING PROCESS

Mixture: 690 UniCure Solid Prime Base component 6,7 parts by volume
Activator 990 LT, 991 NT, 992 HT 2,6 part by volume.

Mixing instructions: It is important that the base component and activator of 690 UniCure Solid Primer are thoroughly mixed. Mechanical mixing during at least 3 minutes is necessary. Make sure that ALL part B is poured into the part A can.

Thinning: The paint is specially developed to be applied WITHOUT solvents.

Potlife: At 20°C 75 minutes (mixed product).

Conditions during application: Substrate temperature should not be lower than 5°C. Relative humidity should be lower than 90%. Temperature of the surface should be at least 3°C above dew point.

PERFORMANCE AND PROPERTIES

Aesthetic product properties

Colour: Light grey

Product properties

Volume solids: 100 volume % (mixed product)

VOC: 0 gr/ltr.

Density: At 20°C 1,10-1,20 kg/ltr (mixed product)

Dry Film thickness: Standard: 75-125 µm (depends on application process)

Theoretical coverage: At a dry film thickness of 100 µm 10,0 m²/ltr.

Practical coverage: The performance in practice depends on various circumstances. As a guideline for large dimensions: 95% of the theoretical coverage. For small dimensions: 85% of the theoretical coverage.

Dry times: 20°C 30°C

Manageable: 12 hours 8 hours

Recoatable: 21 days 10 days

CONTINUATION WORKING PROCESS

Method of application: Do not dilute 690 UniCure Solid Prime with any solvent.

Use the following guideline for application at 20°C: If temperature drops below 15°C the paint must be pre heated to improve sprauability or a special B component should be used. If temperature is rising above 27°C the paint must be stored in a cool place between 20 and 25°C at forehand or a dedicated B component should be used.

Basic air pressure: 8 bar
 Pressure ratio: 1:56
 Spray pressure: 500-530 bar
 Nozzle: 1088417 40° angle (nozzle 17)
 Filter type: standard white

As soon as you have the paint mixed it is important to use the first three minutes to pump the paint through the total system (free gun) without a nozzle. This will improve the spraying pattern because the viscosity will drop slightly. This will also improve the mixing of the paint.

Smaller parts or difficult to reach areas can be coated with brush or roller. Always check the wet layer thickness during the application to ensure the minimum required layer thickness as specified.

System 1
Long service life system with St2 preparation by HPWJ –750 bar or higher Norsok M501 paint system 3B:

Application technique	Thickness in µm
Solid Prime	100 µm min-spray
Solid Seal	200 µm min-spray
Solid Stripe	150 µm min-brush*
150 micron average on edges and weldings.	

System 2
Short term preservation system St1 preparation by hand or HPWJ –350-500 bar.

Application technique	Thickness in µm
Solid Prime	100 µm min-spray
Solid Prime	100 µm min-brush

ENVIRONMENT AND HEALTH

Labelling: In accordance with EU directions 67/548/EEG and in accordance with directives on hazardous materials. Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

UN: 1263

PRE-TREATMENT

Surface preparation:

The minimum surface preparation is defined as St2 conform the Norsok M501 specification. Depending on the circumstances the surface can be cleaned with hand tool or by blasting or water jetting. Blasting in confined spaces is in general limited to 750 bar hydro jetting. If the surface is heavily corroded some spots must be cleaned by mechanical tools such as chipping or needle hammering. It is recommended to clean the surface after blasting with a biodegradable surfactant to ensure that the paint has the optimum possibility to penetrate and adhere to the remaining corroded parts. To remove all soluble salts the surface should be washed with fresh water before applying any coating.

Application:

If large parts of the existing paint system are still adhering well, clean the remaining old paint with a special detergent and wash the surface afterwards with tap water. Always follow the advice of the supplier of the detergent to obtain the best result for adhesion.

If the 690 UniCure Solid Prime is used over existing coatings always check the adhesion by cross cut testing.

PRODUCT INFORMATION

Packaging: 5, 10 and 20 ltr cans. Thinner in 5 ltr jerry cans.

Shelf life: In original well shut packaging 12 months, stored inside at temperatures between 5°C and 40°C.

PROTECTIVE COATINGS

Our 'protective coatings' excel by virtue of their durability, flexibility, adhesion, easy application, anti-corrosion, and chemical and mechanical resistance. This is the result of our vast competence in coating chemistry, combined with a good eye for our client's requirements and wishes. The coating systems conform to ISO 12944 and comply with international VOC guidelines.

TOUCH UP

Touching up of damages or untreated parts at the construction site. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet). Remove the rust from all mechanical damage caused by transport and mounting, untreated welding strips and welding spots and burns with rotating steel wire brushes, sanding discs or steel wire brushes and coarse sandpaper to purity degree St3, in accordance with ISO 8501-1.

Smooth the transition of cleansed parts to parts with intact coats of paint by sanding and scraping.

After sanding, remove all dust from the entire surface with compressed air which is free of moisture and grease. Then touch up the object with the entire paint system, as described in this paint advice.

Touch up light surface damages only with the product of the top coat, as described in the paint advice.

MAINTENANCE

It is recommended to clean the surface regularly and to inspect the coats of paint for defects annually. Touch up any defects with the original paint system.

CONTROL & SUPPORT

Baril Coatings B.V. offers more than just advice. We offer a total service solution to the principal, the architect, the main contractor and the painting contractor.

In order to ensure the required performance in terms of durability, Baril Coatings offers full technical support and supervision during implementation and completion of the application process, all in accordance with the ISO 12944 guideline.

The supervision and support provided by Baril Coatings does not relieve the painting contractor of his responsibility for the work carried out by him. The painting contractor must thoroughly familiarize himself with the most recently updated product data sheets and the general terms and conditions of Baril Coatings for protective coatings on steel. Baril Coatings is not responsible for application and the application conditions. The final durability depends mainly on factors that are outside our control and for that reason we cannot accept any liability.

WARRANTY & DISCLAIMER

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Version 20140714/D