

MasterSeal[®] P 190

MasterSeal SL 190 airport runways & pavement joint sealant primer

DESCRIPTION

MasterSeal P 190 is a special two-part primer developed to improve performance and adherence of concrete, steel & asphalt surfaces before **MasterSeal SL 190** joint sealant applications.

TYPICAL APPLICATIONS

MasterSeal P 190 is used as a primer on porous surfaces like concrete, brick, stone & marble and non-porous surface as steel and asphalt.

ADVANTAGES

- Good penetration behavior
- Strong adhesion to absorbent substrates
- Low viscosity

PACKAGING AND COLORS

MasterSeal P 190 is supplied in a 1 L kits.

TYPICAL PROPERTIES*

Mixed density	Approx. 0.98 g/ml
Solids content	39%
Mixed viscosity	Approx. 75 mPas
Mixing ratio by weight, A : B	100:66
Pot life	Approx. 6 h
Tack free time @ 23°C	Approx. 2 h
Tack free time @ 45°C	Approx. 30 min
Open time for sealant application @ 23°C	From 2 to 6 h
Surface and processing temperature	from +5 to +48°C
Maximum relative humidity	85%

*Note: Values are measured at 23°C ± 2°C and 50% ± 10% relative humidity (R.H.). Higher temperatures and/or higher R.H. can shorten these times, and vice versa.

PREPARATION OF SUBSTRATE

Old coating systems of unknown composition must always be removed. All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. When the primer is applied, the concrete must be at least seven days old. and have reached at least 70 % of its 28-day strength value. Apply masking tape on the outer sides of the joint to prevent staining. When priming the contact surfaces of joints, the round polyethylene string

must be positioned in the joint before the primer is applied.

For metal substrate remove rust oil stains and grease from the substrate with a suitable oil remover. Do not allow flash rusting of the surface. Fill deep joints with closed cell polyethylene backer rod which must not be damaged during the application. Do not use backer rods containing bitumen or tart. For metal substrate application please contact Master Builders Solutions Technical service representative.

APPLICATION GUIDELINES

MIXING

MasterSeal P 190 is supplied with Part A and Part B in the correct ratio. When mixing the two components, you must observe the following points. Make sure that you pour the entire part B out of its container into Part A. Continue mixing until you have produced a homogeneous mixture without any residue – you must mix the components for at least one minute or until you have produced a homogeneous mixture, whichever is longer. You can also use a suitable hand-held stirrer.

When you have mixed the components, you may remove part of the primer from the container. You must then close the container tightly.

The appearance of **MasterSeal P 190** does not change, even if it is no longer suitable for application. You must therefore make sure that all the material is used within 6 hours after mixing (at 23°C). During this time, the consumption might increase due to increasing viscosity.

Please note that after mixing A & B the mixture might turn slight pink in the container. This is normal & it will not color stain the substrate.

MasterSeal[®] P 190

PLACING / APPLICATION

Apply the primer generously to the adhesion surfaces for the joint sealing material using a brush.

In order to ensure full curing, the material and substrate temperatures must not be lower than the minimum limit at any location or at any point during the curing time.

Primer must not be applied on the surface of polyethylene backer rod. After the primer becomes tack free, sealant application should be started.

The joint sealant has to be applied within the open time of minimum 2 hour to maximum 6 hours at 23°C.

In case the primer become completely dried, or time exceeded 6 hours, then sealant application should not be started, joint surfaces must be re primed again with **MasterSeal P 190**. No surface preparation needed, only make sure the surfaces are clean and dust-free.

If the joint is not sealed withing 24 hours, the cured primer should be removed and joint reprimed.

CLEANING

Fresh material may be removed from tools using a solvent. Once the primer has hardened, it can only be removed mechanically. Safely dispose all the used brushes.

COVERAGE / YIELD

For 15 mm deep joints (2x 15mm adhesion area): approx. 6 ml/m or 200 ml/m².

These consumptions are theoretical, and they can vary according to the roughness of the substrate. During the application, coverage can decrease up to 50% due to surface roughness. It is essential to carry out representative trials on site to evaluate the exact consumption.

WATCHPOINTS

Due to its high penetration property, **MasterSeal P 190** primers may cause color fluctuations on granite, marble, natural stone, artificial composites. For this reason, primer should not be overfilled out of the joint during the application.

If surface temperature is below +5°C or over +48°C in **MasterSeal P 190** primer applications, then suitable temperatures must be waited for.

The substrate temperature of the primed area must be at least 3°C above the dew point temperature.

STORAGE AND SHELF LIFE

Must be stored in cool and dry warehouse conditions, protected from freezing and sunlight.

MasterSeal P 190 has a shelf life of 12 months after production date in unopened original packaging, if stored at the above mentioned storage conditions. Opened packages must be used.

MasterSeal[®] P 190

HEALTH AND SAFETY

They are flammable liquids. Approaching warehousing and application areas by fire is hazardous. Warehousing and application areas must be ventilated. Work cloth, protective gloves, goggles, and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the SDS for detailed information.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

MBS_CC-UAE/P_190_03_22

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet



A brand of
MBCC GROUP