

# ONEBOND MS SEAL 45 SPRAY

## Description

OneBond MS Seal 45 Spray is a sprayable car body repair one component SiMP – Silyl Modified Polymer elastic adhesive and sealant for spray applications in automotive car body repair and industrial assembly. It cures under the influence of atmospheric moisture to form a high performance, permanently flexible elastic adhesive. Solvent and isocyanate free.

## Technical Data

<b>Appearance</b>	Non-sag thixotropic paste
<b>Colour:</b>	White, Grey, Black, Beige
<b>Chemical nature:</b>	SiMP Silyl-Modified Polymer
<b>Curing Mechanism:</b>	Moisture-curing
<b>Curing through volume [mm] (24h - 23°C and 50% RH):</b>	ca. 2.4
<b>Hardness Shore A:</b>	ca. 45
<b>Density</b>	ca. 1.38
<b>Skin Time (min) (23°C and 50% RH):</b>	ca. 30
<b>Tensile strength [N/mm<sup>2</sup>]</b>	ca. 2.7
<b>Elastic modulus at 100% [N/mm<sup>2</sup>]</b>	ca. 1.0
<b>Elongation at break [%]</b>	ca. 450
<b>Application temperature (°C)</b>	From +5 to +40
<b>Temperature Resistance [°C]</b>	From -40 to +100

## Application

The surfaces to be treated should be perfectly clean, dry and free from dust and grease. It is necessary to treat the bonding surface according to Onebond application guidelines, eventually using a specific CLEANER or ACTIVATOR. Onebond MS Seal 45 Spray is primerless to glass, metals and plastics. It is advisable to carry out preliminary adhesion tests on the support.

For spray application, use with a dedicated air-pressure gun equipped with a spray regulating nozzle. A smooth spray (orange peel effect) or a more marked effect can be obtained by regulating the nozzle and the air pressure. To better control the spray air flow and therefore the finishing, start from zero pressure and augment to the desired flow. Spray at a distance from 5 to 40 cm

# ONEBOND MS SEAL 45 SPRAY

from the object. Onebond MS Seal 45 Spray is a low viscosity thixotropic paste, viscosity value may slightly differ from each batch and according to the residual shelf life. Spraying and finishing tests should be performed beforehand to obtain the desired effect.

Onebond MS Seal 45 Spray can be over-painted. The paint must be tested for compatibility by carrying out preliminary trials. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and reduce the drying time of the paint itself. The hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Do not cure in the presence of curing silicone sealants. Avoid contact with solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

## Areas of Application

OneBond MS Seal 45 Spray is a versatile sealant specific for direct spray applications as seam sealer for the reproduction of original marks. Used in overlap or welded joints in the automotive industry and in the construction and repair of coaches and car-bodies, railway carriages, industrial vehicles and containers, it also contributes towards protection against corrosion. Excellent primerless adhesion properties to metals, painted surfaces, aluminum, PVC, fiberglass reinforced plastic, ABS, polycarbonate and plastic materials in general.

## Features

- SiMP Silyl-Modified Polymer;
- Solvent and isocyanate free, odorless;
- Sprayable with specific pneumatic gun; fine and/or heavy finishing can be obtained by regulation of air pressure, distance from joint and product dosage;
- The special consistency allows the product to fill even the interstices without running;
- Does not run when removing protective masking tape;
- Can be used for both internal and under-body applications;
- Protects against corrosion;
- Vibration and sound damping properties;
- Sealing of construction joints and electro-welded sheet metal;
- Spot-weldable through before drying;
- Easy to gun when used for beading applications;
- Can be easily tooled, brushed and smoothed;
- Permanently flexible over a wide range of temperatures;

# ONEBOND MS SEAL 45 SPRAY

- No bubble formation;
- Over-paintable with many water and solvent based paints (preliminary tests recommended);
- No Hazard symbol required;

## Cleaning of Equipment and Personal Protective Measures

Clean the tools used with acetone or solvent. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

## Packaging

Polyethylene cartridge 290ml – 12 pieces per box

## Storage

OneBond MS Seal 45 Spray can be stored for 12 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

## Safety Considerations

Safety Data Sheets (SDS) are available from OneBond. SDS include information regarding the physical, health, and environmental health hazards, safety precautions, for products handling, storing and disposal. SDS are available in the language of the country or area of destination and may include locally applicable health and safety regulations. SDS are updated regularly and can be downloaded from [www.onebondadhesives.com](http://www.onebondadhesives.com). OneBond encourages users to review the up-to-date SDS before handling or using any product.

## Customer Notice

The data contained here, obtained in OneBond laboratories, are given for information only; if specifics are required, please contact OneBond Technical Department. OneBond ensures abiding quality of supplied products according to its own specifics. OneBond cannot assume responsibility for the results obtained by others which methods are not under OneBond control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. OneBond disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of OneBond products. OneBond specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.