

TECHNICAL DATA SHEET

EVT Prime Colors



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Technical Data Sheet
Product: EVT Prime Colors
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Special Properties

- ▼ Elastic silicone sealant
- ▼ Elastic single component silicone sealant for indoor and outdoor use with 25% movement capability.
- ▼ Curing system = natural curing silicone
- ▼ Low odour formulation
- ▼ Available in a large number of RAL colors
- ▼ Ageing and weather-resistant, good UV resistance
- ▼ Excellent adhesion on metals and plastics, compatible with copper
- ▼ Contains fungicide

Fields of application

EVT Prime Colors silicone is used for sealing joints in glass, window construction, in metal construction, in sanitary applications, in roofing and plumbing works, in heating, ventilation and air conditioning engineering units.

EVT Prime Colors must not be used in aquarium construction, on marble or natural stones. It should not be used as a mirror adhesive and in areas where there is direct food contact. Prime Colors can be used to seal construction units that are subsequently filled with water. These applications require precise tooling (preparation of substrate; often primer necessary). Underwater joints must be checked on a regular basis and should be maintained from time to time. Not suitable for polypropylene and certain polyethylene products.

Yield

Meters of joint per 300ml cartridge for the following joint dimensions:

5 x 5 mm approx. 12.0 m

10 x 10 mm approx. 3.0 m

Colors & packaging

RAL1013 Oyster White	RAL7013 Brown Grey	RAL7038 Agata Grey
RAL1015 Anemone	RAL7016 Anthracite Grey	RAL7044 Silk Grey
RAL1019 Grey Beige	RAL7021 Black Grey	RAL8019 Grey Brown
RAL7001 Silver Grey	RAL7022 Umbra Grey	RAL9002 Grey White
RAL7006 Beige Grey	RAL7032 Pebble Grey	RAL9005 Jet Black
RAL7012 Basalt Grey	RAL7035 Light Grey	RAL9010 Pure White

More than 200 RAL Colors available at UK Stock upon request.



Packaging:

300 ml cartridges, other pack sizes available on request.

Technical Data

CE-labelling (DIN EN 15651) (details see Declaration of Performance)	Type F ext-int CC (F25LM); Type G CC (G25 LM); Type S (XS 1)
Density (DIN EN ISO 2811-1)	1,02 ± 0,04 g/cm ³
Skin forming time (23°C/50% r.F)	app. 10 min
Penetration (DIN 51579 / 5 sec.)	150 ± 30 1/10 mm
Slump (ISO 7390)	≤ 2 mm
Cure rate (within first 24 hours)	app.2 mm
Shore A hardness (DIN 53505)	17 ± 5 units
Tensile strength (ISO 8339-A, 100%)	app. 0,4 N/mm ²
Maximum movement tolerance	25 %
Volume loss (DIN EN ISO 10563)	max. 5 %
Application temperature (sealant & substrate)	+5 to +35°C
Temperature stability range (fully cured sealant)	-40 to +150°C
Shelf life (originally closed packages)	18 months (+5 to +35°C, 50% relative humidity)

Rate of curing depends on temperature, humidity and depth of substrate. The data given refer to tests at standard conditions (23°C / 50% rel. humidity). Under these conditions, a 10 x 10 mm joint will cure in 8 to 14 days. Low temperature, low humidity and joint depth above 15 mm will retard skin formation and curing significantly.

Data given were determined shortly after production, and may slightly vary with increasing age of product and for different colors. They are not meant for specification purposes.

Substrate pretreatment

The substrate must be dry, firm, and free of dust and grease (clean with isopropanol, if necessary). Before application, remove any cement slurry, mold release agents or

impregnations. In renovation projects, old sealant, remains of paint and loose material must be fully removed. On coated substrates (paints, lacquers), compatibility to the sealant must be tested. The joint must always be provided with a suitable, correctly dimensioned joint backing (e.g. PE cord, rock wool) to prevent adhesion on three faces. To avoid contamination and to achieve a precise joint, we recommend masking the joint edges with adhesive tape before application.

Joint dimensions

Joint dimensions should be at least 5 x 5 mm for indoor and 10 x 8 mm (width x depth) for outdoor applications. With increasing joint width (up to 30 mm), joint depth should be roughly half the joint width. Make sure that triangular bevels have uniform sides of equal length with at least 7 mm bonding surface on each side.

Tooling

After applying the sealant with a suitable manual, battery-powered or pneumatic caulking gun, the sealant can be smoothed in the joint with water or with a neutral, non-staining water-based smoothing agent and a suitable tool (e.g. jointing trowel). Smoothing is not only recommended for optical reasons, but also establishes close contact and good adhesion to the substrate. Remove excess smoothing agent. Any adhesive tape used should be removed immediately after smoothing. Please refer to the EVT assortment for a suitable caulking gun and other processing aids.

Important remarks

The function of the sealant can only be guaranteed if correctly applied in accordance with the technical recommendations given in this data sheet and in related standards. Sealant application where temperatures are fluctuating must be avoided (premature stressing of the sealant).

EVT Prime Colors is compatible with many paints and lacquers. Owing to the large number of different coating systems on the market, adhesion and compatibility tests have to be performed prior to application. For example, it is known that alkyd resin based paints may give discoloration in combination with neutral curing silicones. Prime Colors is not over-paintable. On powder coated substrates we recommend adhesion tests prior to application! When EVT Prime Colors Silicone is in contact with bitumen, tar or plasticizer releasing substrates (e.g. EPDM, neoprene, and butyl), discoloration and/or loss of adhesion may occur. Although EVT Prime Color is a low odour formulation good ventilation must be



provided during application to allow curing by-products to evaporate. Low temperatures, low humidity and joint depths above 15 mm can retard skin formation and curing significantly. Exposure to liquid (e.g. acid-based cleaning agents, strongly colored liquids) or gaseous chemicals (e.g. tobacco smoke) for longer periods can result in discoloration of the product, especially for light colors of Prime Colors. However the mechanical properties of the sealant are not adversely affected. At elevated temperatures, the fresh (non-cured) sealant can react with copper and copper containing metals, leading to discoloration. When applied on these metals, temperatures above 30°C and intense solar radiation have to be avoided during application and curing. Although EVT Prime Colors contains a fungicide and protects joints from going mouldy good housekeeping plays a big role in keeping the joint clean, dry and free from substances, that may serve as nutrition medium for fungal growth (e.g. soap residues, skin scales).

Safety advice

See material safety data sheet. Take all measures resulting from the safety data sheet and hazard labelling to prevent accidents and protect health.

Warranty information

Information given in this data sheet is based on the current state of knowledge. It is not meant as a guarantee. For a guarantee a separate written statement from FS-BF GmbH & Co. KG is required. We reserve the right to make changes to the product data in the course of technical progress or due to operationally related further development. The information given does not exempt the purchaser from carrying out his own careful inspections of incoming goods in individual cases. Owing to factors beyond our control during application and service life, recommendations given in this data sheet require tests and experiments by the customer. Please contact us in case of special applications. Our recommendations do not exempt the customer from the obligation to check any infringements of third-party rights himself and eliminate them if necessary. The suggestions for product use are not equivalent to a warranty of its suitability for the recommended purpose. Especially, additional requirements from the client or local authorities may exist. We refer to your general terms and conditions.

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