

Technical Data Sheet

ACE MP-4035

DESCRIPTION

ACE 4035 is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all typical construction materials such as cement based materials, brick, ceramic, glass, wood, galvanized and painted sheet iron and various plastics.

FEATURES & BENEFITS

- Possesses permanent elasticity .
- 25 % movement capability.
- No surface tackiness after full cure.
- Do not pick up dirt .
- No shrinkage .
- Cures bubble-free .
- Enhanced storage stability .
- No sagging – Thixotropic .
- Can be applied with hand gun and tooled easily .
- Paintable .

APPLICATION AREAS

- Expansion joints between many different construction materials.
- Movement and connection joints in floors.
- Indoor and outdoor applications for pedestrian and traffic areas.
- Joints between prefabricated construction materials.
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels.

INSTRUCTIONS

- Before application, be sure that joint surfaces are clean, dry and free of all contamination.
- Apply sealant evenly, If necessary, use masking tape and remove the tape while the sealant is still soft.
- Joint width/depth ratio should be 2:1 (Table 1).
- If necessary, use back up material to adjust joint depth.
- Sealants should adhere to only two surfaces of the joint: Use backer rods and bond breakers to facilitate.

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Consumption (approx.):

Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length / 600 ml	5 meters	3 meters	2 meters	1,3 meters	1,1 meters

Surface Preparation

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

STANDARDS

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 "Low-emitting products" of SCAQMD rule 1168.
- The French VOC requirements for class A+.
- CE marked for EN 15651 for façade and pedestrian walkway applications.
- BS 6920 for the metallic water soluble impurities.

RESTRICTIONS

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Do not use in applications where continuous water immersion is possible.
- Do not apply on frozen or wet surfaces or through standing water.
- Prolonged exposure to direct sunlight can cause discoloring.
- Avoid application below 5 °C and above 40 °C.

Dirección Corporativa:

ACE COATINGS S.L.
Campo Sagrado, 11
33205 - Gijón - España (Spain)



+34 985 323 328
www.acecoatings.com
info@acecoatings.com

ACE COATINGS LATAM SPA
Av/ Apoquindo 3885 Piso 18
Las Condes-Santiago de Chile
+56 9 79913091-línea WhatsApp

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STORAGE AND SHELF LIFE

- 15 months if stored in its original package, away from direct sunlight and moisture, between +10°C and +25 °C

SAFETY & DISPOSAL

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

PROPERTIES

BEFORE CURING	
Basis	: Polyurethane
Consistency	: Thixotropic
Curing Mechanism	: Moisture Curing
Density	: 1,20±0,03 g/ml
Tack free time	: 20-70 min. (23°C and 50% R.H)
Curing Rate	: Min. 2,5 mm/day (23°C and 50% R.H)
Sagging	: 0 mm (EN ISO 7390)
Temperature Resistance	: -40°C to +90°C
Application Temperature	: +5°C to +40°C

AFTER CURING	
Hardness Shore A	: 35-40 After 28 days (ASTM C661)
Paintability	: Yes *
Elastic Recovery	: ≥ 70% (ISO 7389)

Glass-Glass	
Elongation at break	: ≥ 100% (ISO8339)
E100 Modulus (23 °C)	: 0.35-0.40 N/mm ² (ISO8339)
E100 Modulus (-20 °C)	: ≤ 0,60 N/mm ² (ISO8339)

DUMBLE TEST	
Elongation at break	: ≥ 600 (ASTM D412)
Tensile Strength	: 1.5-2.0 N/mm ² (ASTM D412)

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PRODUCT

Product Type	Volume	Package
White/ Black/ Grey	310 ml	12
White/Black/Grey (Sausage)	600 ml	12

DISCLAIMER

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