TECHNICAL DATA SHEET
TOTAL TECH

Product description

Total Tech Xpress Effect is a water- and solvent-free hybrid sealant and adhesive based on reactive technology that combines versatility and adhesion on all types of materials (delicate materials, zinc-coated steel, galvanized steel, polycarbonate, methacrylate) with high flexibility and tightness (sealant) even under water. It combines the best characteristics of a sealant with the mechanical capacity of a mounting adhesive.

Technical characteristics

Colours	White / Grey / Brown / Black / Terracotta / Beige / Blue
Sag (Daniels viscometer)	0 mm – thixotropic
Dry residue	> 95%
Density	1.44 – 1.48 kg/l
Skin formation (in 2 mm extension, 23 °C, 50 % RH)	15 min.
Drying time	1 hr.
Depth of cure	3 mm (24 hr.); > 5 mm (7 days)
$T_{service}$	-40 °C – +90 °C
$T_{application}$	+5 °C – +35 °C
Shore A hardness (DIN 53505)	45 - 50
Elongation at break (DIN 53504)	> 370 %
Tensile strength	300 kg/10 cm^2 [3.0 MPa]
Viscosity	>15000 cP (0,1 s^{-1})
	400–800 cP (5 s^{-1})
	100–450 cP (10 s^{-1})
All formats comply with CE marking for EN 15651-1 (F EXT-INT CF), EN 15651-2 (G CF), EN 15651-3 (S) and EN 15651-4 (PW).	
The coloured formats comply with the drinking water certificate UNE EN 12873-1 2014, RD140	
HABITAT SAIN A+ certificate	
Non-permanent chlorine resistance	

Properties

- High filling capacity
- Odourless
- UV radiation resistant
- 100 % paintable during the first 24 hr.
- Direct application: no need for aeration, facilitating installation work
- Bonding speed

Paintability:

- Can be painted within 24 hours to ensure good paint adhesion.
- Longer drying times may present problems.
- Subject to prior testing.
- Do not use solvent-based or polyurethane enamels.
- The drying time, colour and texture of paints may change depending on their nature.
- We recommend acrylic paints.

Applications

- Creating air/water seals and expansion joints.
- Bonding and sealing construction materials.
- Bonding and securing planks, coatings and veneers.
- Bonding and sealing metal and plastic parts.
- Bonding and sealing industrial bodywork.
- Bonding sandwich panels and securing insulating boards (expanded polystyrene, etc.).
- Ducting work (zinc, aluminium, stainless steel, galvanized materials, PVC, etc.). Suitable for mirrors and metals.
- Filling and sealing all types of cracks and fissures.
- Does not shrink or lose volume.
- Does not moisten surfaces or produce oxidation or corrosion.
- Not suitable for plumbing installations carrying pressurised water or gas, etc.
- For sealing and constructing aquariums, please contact our technical service department.
- Test in polycarbonate first.
- Suitable for dry, damp, wet or submerged bonding.
- Not suitable for PP, PE, PTFE, plasticised PVC or foil-faced XPE.
- Test first on materials with complex adhesion.
- Suitable for indoor, outdoor, porous, non-porous, delicate and non-delicate materials.

Instructions for use

Surface preparation:

Surfaces to be fixed or sealed must be clean, free of dust or grease, lichen, mould, mildew or any residues from other applications that could compromise the adhesion of Total Tech. The material used for cleaning substrates will depend on the nature of the surface, but for metal or glass substrates it will be sufficient to wipe them with a clean cloth moistened with acetone.

In other cases, seek the advice of the manufacturer of the substrate for the best cleaning method.

Application:

Sealing:

Cut the nozzle to the desired diameter and apply to the inside of the joint using an appropriate sealant gun. For vertical sealant runs, work from bottom to top to avoid the formation of air pockets inside the joint (cracks in tiles, etc.).

If a joint strip must be installed, seal with a bead of polyethylene foam or, alternatively, with extruded or expanded polyethylene.

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CEYS SILICONE SMOOTHING spatula can be used to smooth the surface of the joint.

- Joint dimensions:

The width of the joint must be designed so that it is compatible with the movement capability of the sealant and the building element.

Non-moving joints:

The joint width should be between 6 mm and 20 mm.
A width-to-depth ratio of 2:1 should be maintained.
Joints with a width ≤ 10 mm between panels and perimeters are non-moving joints.

Moving joints:

Moving joints shall be between 10 mm and 40 mm wide.
The width-to-depth ratio will be established according to the following criteria: vertical walls = 2:1; horizontal walls = 1:0.8.

Not suitable for sealing in direct contact with water containing high concentrations of chlorine, salt water, hydrocarbons, solvents, strong acids or bases.

Suitable for repairing and sealing swimming pools and drinking water tanks. In this case the repairs will be temporary and not permanent as chlorine and salt are highly oxidising and will eventually degrade the installations.

Bonding:

Apply in dabs to the object to be secured or in a continuous bead if a seal is likewise required. Secure the bond with mechanical means in order to prevent movement. Keep in their original position for at least 24 hours.

Paintability:

Broad spectrum of adhesion without prior priming. Paintable during the first 24 hours after application (prior test recommended).

Storage

In normal storage conditions and in its original packaging, this product's storage life is 24 months. Keep container in a cool, dry place between +10 °C and +35 °C.

Protect from heat (extreme temperatures), flames and sparks.

Safety precautions

Keep out of the reach of children.

See safety data sheet (MSDS) for more information.

The user shall take ultimate responsibility for determining the final suitability of the product in all types of application.