



FORGEWAY
GLUE WITH HIGH IQ



Technical Data Sheet: FORMOA Parquet

Product Description

Formoa Parquet is a single-component MS Polymer adhesive. It is designed specifically for bonding in the flooring industry

Key Features

- Free from solvents, isocyanates, phthalates, low VOCs.
- Parquet ISO 17178 Classification - Elastic adhesive
- Ready to use - no mixing required, and easy to handle
- Excellent wet holding strength to retain flooring in place whilst it cures



Applications

- For use in parquet flooring applications
 - Suitable for bonding natural and engineered woods onto indoor subfloors (concrete)
 - Suitable for use with underfloor heating.
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Technical Data Sheet: FORMOA Parquet

Technical Characteristics

Formoa Parquet

Properties	Formoa Parquet
Base Material	Hybrid Polymer
Curing System	Moisture
Colour	Light Brown Light Oak
Wet Properties	Formoa Parquet
Density (Kg/l)	1.66
Trowel observations	Hold ridges and easy to apply
Skin time (mins)	30
Transfer Free time (mins) (max open time beech)	40
Application temperature	15-25°C
Application time / adjustable until / workable	30 mins
Set to traffic time / can be loaded after	12 hours
Sanding time (if required)	24 hours
Viscosity CEP @ 0.6 S-1 (Pa.s)	900,000
Cured Properties	Formoa Parquet
Long term temperature resistance	-40°C to 90°C, suitable for use with underfloor heating
Tensile Strength (MPa) - ISO 37	1.5
% Elongation - ISO 37	>800%
Shear Strength (MPa) - Beech - ASTM D1002	1.3
Shear elongation mm/mm ²	3.6
Shore A Hardness - ISO 868	44
Parquet ISO classification EN ISO 17178	Elastic adhesive
Resistance against aging	Good
Consumption / Kg	Approx 3 linear meters per kg using B11 trowel

(*) These values may vary depending on environmental factors, such as: temperature, moisture and type of substrates.

Adhesion

Concrete / Subfloor screeds | Cementitious screed according to EN 13813, Calcium sulphate screed according to EN 13813

Parquet Wood | OSB, Plywood, Chipboard

*Check suppliers recommended water content of wood before starting installation.



Technical Data Sheet: FORMOA Parquet

Performance Characteristics

Formoa Parquet Lap Shear Strength

Adhesive was evaluated for its durability when subjected to extremes of hot, cold and heat with humidity (H/H).

The chosen conditions were,

-50°C
-20°C
Ambient
50°C
100°C
70°C with 95% relative humidity (H/H)

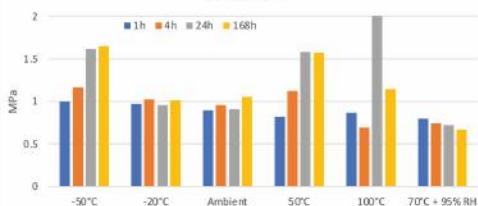
The test was conducted at each condition, after the following time frames

1 hour
4 hours
24 hours
168 hours (1 Week)

Test pieces were prepared and allowed to cure for 3 days under ambient conditions before being subjected to test conditions.

Formoa Parquet 2323303 Lap Shear							
Durability Lap	-50°C	-20°C	Ambient	50°C	100°C	70°C + 95% RH	
1h	1.0033	0.9723	0.8959	0.8205	0.8617	0.7935	
4h	1.1678	1.0197	0.9510	1.1197	0.6882	0.7427	
24h	1.6209	0.9521	0.9111	1.5798	2.0095	0.7222	
168h	1.6497	1.0158	1.0492	1.5705	1.1422	0.6674	

Formoa Parquet 2323303 Lap Shear at Various Conditions



Formoa Parquet Dumbbell Tensile Strength

Adhesive was evaluated for its durability when subjected to extremes of hot, cold and heat with humidity (H/H).

The chosen conditions were,

-50°C
-20°C
Ambient
50°C
100°C
70°C with 95% relative humidity (H/H)

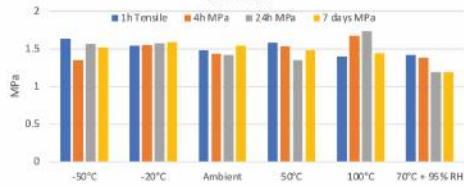
The test was conducted at each condition, after the following time frames

1 hour
4 hours
24 hours
168 hours (1 Week)

Test pieces were prepared and allowed to cure for 3 days under ambient conditions before being subjected to test conditions.

Formoa Parquet 2323303 Dumbbell Tensile Strength							
Durability Dumbbells Tensile	-50°C	-20°C	Ambient	50°C	100°C	70°C + 95% RH	
1h Tensile	1.63	1.54	1.48	1.58	1.40	1.41	
4h MPa	1.35	1.55	1.43	1.53	1.67	1.38	
24h MPa	1.56	1.57	1.41	1.35	1.73	1.19	
7 days MPa	1.51	1.59	1.54	1.48	1.44	1.19	

Formoa Parquet 2323303 Tensile Strength at Various Conditions



Technical Data Sheet: FORMOA Parquet

Performance Characteristics

Formoa Parquet Dumbbell
% Elongation

Adhesive was evaluated for its durability when subjected to extremes of hot, cold and heat with humidity (H/H).

The chosen conditions were,

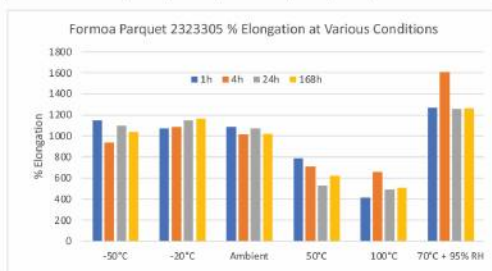
-50°C
-20°C
Ambient
50°C
100°C
70°C with 95% relative humidity (H/H)

The test was conducted at each condition, after the following time frames

1 hour
4 hours
24 hours
168 hours (1 Week)

Test pieces were prepared and allowed to cure for 3 days under ambient conditions before being subjected to test conditions.

Formoa Parquet 2323303 Dumbbell % Elongation						
Durability % Elongation	-50°C	-20°C	Ambient	50°C	100°C	70°C + 95% RH
1h	1148	1076	1083	788	416	1268
4h	940	1084	1012	712	656	1608
24h	1100	1152	1072	528	492	1256
168h	1040	1160	1020	620	508	1264

Formoa Parquet Dumbbell
Shore A Hardness

Adhesive was evaluated for its durability when subjected to extremes of hot, cold and heat with humidity (H/H).

The chosen conditions were,

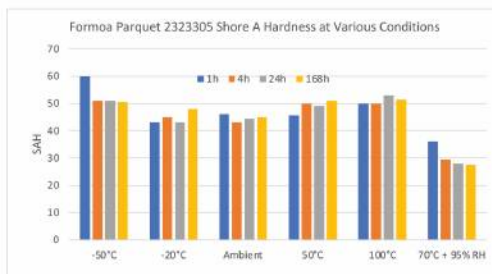
-50°C
-20°C
Ambient
50°C
100°C
70°C with 95% relative humidity (H/H)

The test was conducted at each condition, after the following time frames

1 hour
4 hours
24 hours
168 hours (1 Week)

Test pieces were prepared and allowed to cure for 3 days under ambient conditions before being subjected to test conditions.

Formoa Parquet 2323303 Dumbbell Shore A Hardness						
Durability Dumbbells SAH	-50°C	-20°C	Ambient	50°C	100°C	70°C + 95% RH
1h	60	43	46	45.5	50	36
4h	51	45	43	50	50	29.5
24h	51	43	44.5	49	53	28
168h	50.5	48	45	51	51.5	27.5



Technical Data Sheet: FORMOA Parquet

Performance Characteristics

Formoa Parquet Dumbbell % Elongation

Adhesive was evaluated for its durability when subjected to extremes of hot, cold and heat with humidity (H/H).

The chosen conditions were,

-50°C

-20°C

Ambient

50°C

100°C

70°C with 95% relative humidity (H/H)

The test was conducted at each condition after the following time frames

1 hour

4 hours

24 hours

168 hours (1 Week)

Test pieces were prepared and allowed to cure for 3 days under ambient conditions before being subjected to test conditions.

Formoa Parquet 2323303 Durability Adhesion						
Substrate	-50°C	-20°C	Ambient	50°C	100°C	70°C + 95% RH
Concrete	4	4	4	4	4	4
Parquet	5	5	5	5	5	5
1h Concrete	4	4	4	4	4	4
Parquet	5	5	5	5	4	5
4h Concrete	5	5	4	4	4	3
Parquet	5	5	5	5	5	5
24h Concrete	5	5	3	3	3	3
Parquet	5	5	5	3	5	5
7 day Concrete	5	3	3	3	3	3
Parquet	5	5	5	4	5	5

ADHESION PEEL TESTING KEY
 5 = 100% cohesive failure
 4 = some adhesive/primer failure but less than 10%
 3 = 50% cohesive failure 50% adhesive failure
 2 = bead fails when pulled - greater than 50% adhesive failure
 1 = bead pulls off easily
 0 = bead fallen off during test



Figure 1 Excellent Adhesion Score 5



Figure 2 Substrate failure due to conditioning Score 3

Technical Data Sheet: FORMOA Parquet

Colours

Light Brown Oak



Shelf Life

12 months in unopened packaging, in a cool and dry storage place at temperatures between +5°C and +25°C. Use within one week once opened.

Application Instructions

- Apply to clean, dry, free from dust or grease substrates. Paying particular attention to concrete subfloors.
- Apply evenly with a notched trowel. Fine trowel for small substrate and/or smooth substrate. Large trowel for large and/or coarse substrate), apply as much as can be utilised within 30mins. Lay parquet onto adhesive covered floor and pressed down firmly within 30mins.
- Do not apply flooring if skin has formed – Remove and apply fresh adhesive to ensure sufficient bonding.
- Do not apply in areas of high humidity (Bathrooms/wet rooms) or rooms/areas at high humidity (after decorating – water-based paints, plaster etc). This could impact the adhesive transfer free time and bonding performance.
- Do not apply against rising damp, or areas susceptible to rising damp.
- Do not apply to frozen areas or standing water.
- Remove any spilled / misapplied adhesive when wet. Cured adhesive can be mechanically removed only

Volumes Available.

Bucket
16Kg



Remarks, Disclaimer & Health and Safety

Disclaimer - The variability of materials, substrates and conditions of use is such that no warranty of their functionality for a specific application can be deducted from this information, written recommendation or any other type of suggestion offered. Each user has the responsibility to complete adequate evaluations on the efficacy of the materials offered by ForgeWay, of its products, services, recommendations and suggestions for the specific application need, and must accomplish sufficient testing to ascertain that the final product will be safe and sound for the final intent of the end user.

Health and safety - Refer to Safety Data Sheet (SDS) for further information. Apply the usual industrial hygiene.

Reviewed July 2023